

# Index of Generic Names of Fossil Plants, 1974-1978

---

G E O L O G I C A L   S U R V E Y   B U L L E T I N   1 5 1 7



**RECEIVED**

NOV 24 1982

Dacus Library  
Winthrop College  
Documents Department

**SHIPPING LIST 175124**



# Index of Generic Names of Fossil Plants, 1974-1978

By ARTHUR D. WATT

---

G E O L O G I C A L   S U R V E Y   B U L L E T I N   1 5 1 7

*Based on the Compendium  
Index of Paleobotany of  
the U.S. Geological Survey*



UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, *Secretary*

GEOLOGICAL SURVEY

Dallas L. Peck, *Director*

---

Library of Congress Cataloging in Publication Data

Watt, Arthur Dwight, 1921-

Index of generic names of fossil plants, 1974-1978.

(Geological Survey bulletin ; 1517)

Supplements Index of generic names of fossil plants, 1820-1965, by H. N. Andrews and Index of generic names of fossil plants, 1966-1973, by A. M. Blazer.

Supt. of Docs. no.: I 19.3:1517

1. Paleobotany--Nomenclators. 2. Paleobotany--Bibliography. I. Blazer, Anna M. Index of generic names of fossil plants, 1966-1973. II. Title. III. Series: United States. Geological Survey. Bulletin ; 1517.

QE75.B9 no. 1517 [QE903] 557.3s [561'.014] 80-606811

---

For sale by the Distribution Branch, U.S. Geological Survey,  
604 South Pickett Street, Alexandria, VA 22304

## CONTENTS

---

|                                      | Page |
|--------------------------------------|------|
| Introduction .....                   | 1    |
| Generic index of fossil plants ..... | 3    |
| Bibliography .....                   | 43   |



# INDEX OF GENERIC NAMES OF FOSSIL PLANTS, 1974-1978

---

By ARTHUR D. WATT

---

## INTRODUCTION

This bulletin is a continuation of the series begun as "Index of Generic Names of Fossil Plants, 1820-1950" (U.S. Geological Survey Bulletin 1013, 1955) by Henry N. Andrews, Jr. Bulletin 1013 was followed in 1970 by Bulletin 1300, also by Andrews; this encompassed the period 1820-1965 and included a complete history of this project and of the U.S. Geological Survey Compendium Index of Paleobotany, the primary source of material for this series. In 1975, Anna M. Blazer prepared a supplement (U.S. Geological Survey Bulletin 1396) that covered the period 1966-1973. The present supplement generally follows the format of the 1966-1973 Index, as well as the methodology described therein by Blazer. Some older names inadvertently omitted from the earlier bulletins have been incorporated here insofar as possible. This Index makes no attempt to include names of palynomorphs, diatoms, bacteria, acritarchs, or dinoflagellates.

The original aim of this supplement was to cover the years 1974-1977, but Richard S. Cowan of the Botany Department, Smithsonian Institution, kindly made available to me unpublished manuscript volumes of the "Index Nomina Genericorum" (later published in November 1979). In this material, I found many fossil generic names not encountered elsewhere: therefore, the coverage of this index has been extended through 1978. In the Index, all names initially found in the Index Nomina Genericorum are noted by the letters "ING" at the end of the citation; all entries taken either from quoted literature or ING and not seen by the present compiler are preceded by asterisks.

So that records of paleobotanical research may be kept as complete as possible in the Compendium Index, it is urgent that all paleobotanists contribute reprints or send notations of their publications to

The Paleobotanical Library  
Paleontology and Stratigraphy Branch  
U.S. Geological Survey  
Room W-300, U.S. National Museum  
Washington, D.C. 20560, U.S.A.

I have had considerable, much appreciated help in conjunction with the preparation of this supplement. The late Anna M. Blazer initiated the work, and Sergius H. Mamay generally supervised it. Francis M. Hueber, Smithsonian Institution, was always available for advice. Richard S. Cowan and Ellen Farr, also of the Smithsonian Institution, provided generous assistance through the ING manuscript. The librarians of both the U.S. Geological Survey and Smithsonian Institution gave invaluable assistance in locating publications.



## GENERIC INDEX OF FOSSIL PLANTS

**ABACODENDRON** Radchenko, 1955

\**Abacodendron liduginii* G. P. Radchenko, 1955, Atlas Rukovod. Form Iskop. Fauny Fl. Zapadn. Sibiri, v. 2, p. 99; bark, Lepidophyta; Kuzneck (sic.) Basin, U.S.S.R.; Lower Carboniferous. ING

**ABUNDACAPSA** Licari, 1978

*Abundacapsa impages* Licari, 1978, p. 780, pl. 2, fig. 7; alga, Chroococcaceae; eastern California, U.S.A., upper pre-Phanerozoic.

**ACANTHOPHYLLUM** Doubinger and Germar, 1973

*Acanthophyllum boeckeri* Doubinger and Germar, 1973, p. 47-50, pl. 1, fig. 1; pinules; northwest Spain; Westphalian D.

**ACAULANGIUM** Millay, 1977

*Acaulangium bulbaceus* Millay, 1977, p. 223-229, 13 figs.; marattialean; Calhoun coal mine, Richland County, Illinois, U.S.A.; Upper Pennsylvanian.

**ACORITES** Crepet, 1978

*Acorites heeri* (Berry) Crepet, 1978, p. 250, pl. 1, figs. 3, 5; aroid inflorescence; La Grange, Tennessee, U.S.A.; Eocene. New name for *Acorus heeri* Berry, 1930, p. 55, pl. 8, fig. 7.

**ACROVENA** Hickey, 1977

*Acrovena laevis* Hickey, 1977, p. 143, pl. 45, fig. 8, fossil leaf; Stark County, North Dakota, U.S.A.; lower Eocene.

**ACTINOPHOROXYLON** Kramer, 1974

*Actinophoroxylon heteroradiatum* Kramer, 1974, p. 36-42, figs. 34a-c; pl. 5, figs. 225, 226, 228, 229; wood, Tiliaceae; Sumbawa and Sumatra Islands, Southeast Asia; Tertiary.

**ACTINOPORELLA** Alth, 1882

*Actinoporella podolica* (A. von Alth) Alth, 1882, p. 322, figured in 1878 as *Gyroporella*, pl. 6, figs. 1-8; Dasycladaceae; Ukraine, U.S.S.R.; Upper Jurassic.

**ACTINOSTELOPTERIS** Sharma and Bohra, 1974

*Actinostelopteris pakurens* Sharma and Bohra, 1974, p. 55-58, pl. 1; fossil stem; Rajmahal Hills, District of Bihar, India; Jurassic.

**ACULEA** Douglas, 1973

*Aculea bifida* Douglas, 1973, p. 93-94, pl. 35, fig. 1, sterile leaves and fertile pin-

nae; Boola Boola Forest L 14, Victoria, Australia; Mesozoic.

**ACULEOPHYTON** Kräusel and Venkatachala, 1966

*Aculeophyton sibiricum* Kräusel and Venkatachala, 1966, p. 224-225, pl. 28, figs. 26-29; pls. 29-31; thallophyte; Orestove and Barass, Kuznetsk Basin, western Siberia, U.S.S.R.; Lower Devonian.

**ACUS** Tsao and Zhao, 1974

*Acus platypluteus* Tsao and Zhao, 1974, p. 67, pl. 2, figs. 3, 4; micropaleontica; southwest China; Sinian. Noticed in Cao Ruiji and Zhao Wenjie, 1978, p. 25.

**ADIANTOPTERIDIUM** Purkynova, 1970

\**Adiantopteridium oblongifolium* (Goepfert, 1839) Purkynova, 1970; see Purkynova, 1974, pl. 2, fig. 2.

**ADIANTOPTERIS** Vassilevskaya, 1963

\**Adiantopteris sewardi* (H. Yabe) N. D. Vassilevskaya, 1963, in Markovsky, B. P., Novye Vidy Drevn. Rast. Bespoz. U.S.S.R. v. 2, no. 1, p. 49 (1968); leaf; Pteridaceae; northwest of Naktong, South Korea; Upper Jurassic to Lower Cretaceous. New name for *Adiantites sewardi* Yabe, 1905, p. 39, pl. 1, figs. 1-8. ING

**AEROCORTEX** Beck, 1978

*Aerocortex kentuckiensis* Beck, 1978, p. 232, figs. 4, 5, 14-16, 25, 36, 37, 45 a, b; vascular bundles; 2.4 miles north of New Haven, Nelson County, Kentucky, U.S.A.; New Albany Shale, Lower Mississippian.

**AERORRHIZOS** Chitaley, 1968

*Aerorrhizos harrisii* Chitaley, 1968, p. 7-12, text figs. 1-9; petrified roots; Mohgaon Kalan, Chhindwara District, Madhya Pradesh, India; Deccan Intertrappean series, probably Paleocene.

**AFZELIOXYLON** Louvet, 1966

\**Afzelioxylon kilianii* Louvet, 1966, Comp. Rend. 90 Congr. Nat'l. Soc. Savantes, Sect. Sci. 2, p. 325; wood, Leguminosae; Tinnert, Algeria; Tertiary. ING

**AFZELLIOXYLON** Koeniguer, 1973

*Afzelliioxylon furoni* Koeniguer, 1973, p. 196-199, pl. 2, figs. 1-2; pl. 3, figs. 1-4; fossil plant, Caesalpinaceae; l'oasis de Kirdimi, Tchad; Devonian.

- ALAFRUCTUS** MacGinitie, 1974  
*Alafructus lineatulus* (Cockerell) MacGinitie, 1974, p. 68, pl. 15, fig. 3; winged fruit; Kisinger Lakes, Wyoming, U.S.A.; middle Eocene.
- ALAMATUS** Douglas, 1973  
*Alamatus bifarius* Douglas, 1973, p. 94-95, pl. 37; pl. 38, figs. 1-2; fossil leaf; foot of Racecourse steps, Moonlight Head, Victoria, Australia; Mesozoic.
- ALATISPERMUM** Vassilevsk, 1977  
*\*Alatispermum malandini* Vassilevsk, 1977, in *Mezozoishie otlozhenia Severo-Vostoka U.S.S.R.*, *Sbornik nauchnykh trudov*, p. 66-70, pl. 8, figs. 1-2; Lower Cretaceous.
- ALIBIZZINIUM** Prakash, 1973  
*Alibizzinium eolebbekianum* Prakash, 1973, p. 197-199, pl. 3, figs. 9, 11, 12; fossil wood, Leguminosae; Himachal Pradesh, India; lower Siwalik beds, middle Miocene.
- ALLOCLADUS** Townrow, 1967  
*Allocladus rajmahalense* (Feistmantel) Townrow, 1967, p. 159-161, pl. 1 D; coniferales incertae sedis; Bindarum, Rajmahal Hills, India; Middle Jurassic. New name for *Echinostrobus rajmahalense* Feistmantel, 1877, p. 90, pl. 65, figs. 3, 3a.
- ALNITES** H. R. Goeppert and G. C. Berendt, 1845  
*\*Alnites succineus* Goeppert and Berendt, 1845, *Bernstein Org. Reste* Vorwelt, v. 1, no. 1, p. 106; leaves; Prussia; Miocene. ING
- ALTINGIOXYLON** Kramer, 1974  
*Altingioxylon rhodoleioides* Kramer, 1974, p. 98-105, pl. 23, figs. 61, 65; pl. 24, figs. 65, 67, 68, 70-72; fossil wood; Hamamelidaceae; Java; Tertiary.
- AMADOCOPTERIS** Zalesky, 1944  
*\*Amadocopteris rossica* Zalesky, 1944, *Neues Jahrb. Mineral. Geol., Monatsch., Abt. B, Geol. Palaeontol.* (1944), p. 190; fertile foliage, incertae sedis; Mironowaja, Donetz Basin, U.S.S.R.; Lower Permian. ING
- AMANDA** Douglas, 1973  
*Amanda floribunda* Douglas, 1973, p. 95-96, pl. 36, figs. 2-3; pl. 39, figs. 1-3; pl. 41, figs. 1-3; fossil leaves; Culvert, Deep Creek near Casterton, Victoria, Australia; Mesozoic.
- AMDRUPIOPSIS** H. C. Sze and H. H. Lee, 1952  
*\*Amdrupiopsis sphenopteroides* Sze and Lee, 1952, *Palaeontol. Sin., Ser. A., ser. 2*, 3, p. 6, 24; foliage, Filicales; Ngai-Shan-Tze, Wei-yuan, China; Jurassic.
- ING  
**AMPHORELLA** Borza and Samuel, 1977  
*Amphorella bicamerata* Borza and Samuel, 1977, p. 100.101, pl. 1, figs. 1-8; incertae sedis; the Muranska planina plateau, Czechoslovakia; Upper Triassic, Norian.
- AMPHOROCHARA** Krasavina, 1978  
*Amphorochara grambastii* Krasavina, 1978, p. 227-228, pl. 1, figs. 1-6; charophyte; eastern Siberia, U.S.S.R.; upper Pleistocene.
- ANABAENIDIUM** Schopf, 1968  
*Anabaenidium johnsonii* Schopf, 1968, p. 680-681, pl. 81, fig. 4; incertae sedis, "alga," Nostocaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.
- ANABARIA** Komar, 1964  
 Noticed in Tsao-Rui-chi and Liang Yuzou, 1974.
- ANASPERMA** Long, 1966  
*Anasperma burnense* Long, 1966, p. 351-354, pl. 1, figs. 7-10; pl. 2, figs. 11-20; pl. 3, figs. 21-32; pl. 4, fig. 33; anatropous, ovoid seed; near Burnmouth, Berwickshire, Scotland; Lower Carboniferous.
- ANCYSTROPHYLLUM** Göppert, 1841  
*Ancystrophyllum stigmaraeforme* Göppert, 1841, *Genres de pl. foss. v. 2*, p. 33, pl. 17, figs. 1-3; incertae sedis; Landshut, Silesia, Germany; Carboniferous.
- ANDANOPHYLLUM** Svedov, 1957  
*\*Andanophyllum elongatum* Svedov, N. A., 1957, *Sborn. Statej. Paleontol. Biostratigr. v. 3*, p. 61; leaf, Medullosaceae; lower Tunguska River basin, eastern Siberia, U.S.S.R.; Lower Permian. ING
- ANDREWOPTERIS** Baxter, 1975  
*Andrewopteris revoluta* Baxter, 1975, p. 157-161, fig. 1, pls. 1-3; fern, Filicales; Pittsburg-Midway coal mine 19.5 miles northeast of Hallowell, Kansas, U.S.A.; Middle Pennsylvanian.
- ANGOPHYLLITES** Gluchova, 1978  
*\*Angophyllites optimus* Gluchova, 1978, p. 534, illustrated in Gluchova, 1967, as *Cordaites optimus*; fossil leaves; Minusinsk Basin, U.S.S.R.; Middle to Upper Carboniferous.
- ANGRENIA** T. A. Sixtel, 1972  
*\*Angrenia angustifolia* Sixtel, 1972, in Grigor'eva, A. M. et al, *Novye Vidy Drevnih Rast. Bespoznoc*, U.S.S.R., p. 324; trunks, leaves, and strobili, Gymnospermae; Tjan'San, central Asia; Upper Permian and Lower Triassic. ING

*ANISOPTERIS* Oberste Brink, 1914

\**Anisopteris machaneki* (Stur) Oberste Brink, 1914, p. 95, new name for *Rhacopteris machaneki* Stur, 1875, Abh. K. K. geol. Reichs., Wien, v.8, no. 1, p. 75, pl. 8, fig. 4; Sphenopterideae; d'Altendorf; Lower Carboniferous.

*ANOMALOIDES* Ulrich, 1878

*Anomaloides reticulatus* Ulrich, 1878, p. 92-93, pl. 4, fig. 6; cyclocrinid alga; Covington, Kentucky, U.S.A.; Upper Ordovician.

*ANTROPHYTES* Andreanezky, 1954

\**Antrophytes egedensis* Andreanezky, 1954, Bot. Kozlem, v. 45, p. 137; leaf, Polypodiaceae; Kiseged, near Eger, Hungary; lower Oligocene. ING

*APHANOCAPSAOPSIS* Maithy and Sukla, 1977

*Aphanocapsaopsis sitholeyii* Maithy and Sukla, 1977, p. 178-179, pl. 1, figs. 8, 9; alga, Chroococcaceae; Ramapura, Madhya Pradesh, India; Suket shales, Vindhyan System, upper Precambrian.

*APHROSTROMA* Gürich, 1906

\**Aphrostroma tenerum* G. Gurich, 1906, Mem. Mus. Roy. Hist. Nat. Belgique, v. 3, no. 12, p. 36, 53; Cyanophyceae; Namur, Belgium; Lower Carboniferous, lower Viséan. ING

*APOPHORETELLA* Elliott, 1975

*Apophoretella dobunnorum* Elliott, 1975, p. 354-355, pl. 49, fig. 3; algae, Myxophyceae; north of Cirencester, Gloucestershire, England; Middle Jurassic.

*APPIA* Shapovalova, 1974

*Appia topicalis* Shapovalova, 1974, p. 97-99, pl. 14, figs. 2, 4, 5; pl. 15, figs. 1-4; pl. 16, figs. 1-4; stromatolite; Kyllakhskiy Mts., Yakutskaya, U.S.S.R.; middle Riphean.

*ARACITES* P. A. Nikitin, 1957

\**Aracites johnstrupii* (N. Hartz) Nikitin, 1957, Plioc. Cetvert Fl. Voronezh Obl., p. 123; seed, Araceae; Jutland, Denmark; Tertiary. New name for *Carpolithes johnstrupii* Hartz. ING

*ARANETZIA* Zalesky, 1934

\**Aranetzia spendens* Zalesky, 1934, p. 271, figs. 46-48; Sphenopterideae; Petchora; Permian.

*ARAUCARIODENDRON* Krassilov, 1965

*Araucariodendron heterophyllum* Krassilov, 1965, p. 110-114, pl. 9, figs. 1-4; fossil wood, Aracariaceae; Far East of the U.S.S.R.; Cretaceous. ING

*ARCHAEONEMA* Schopf, 1968

*Archaeonema longicellularis* Schopf, 1968,

p. 678, pl. 80, fig. 11; incertae sedis, "alga," Nostocaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian. Species name corrected to *A. longicellularis* in Schopf and Blacic, 1971, p. 956.

*ARCHAEOPODOCARPUS* Weigelt, 1928

*Archaeopodocarpus germanicus* Weigelt, 1928, p. 485-553, pl. 13, 29 figs.; Coniferae; Germany; Permian.

*ARCHAEOSPHEROIDES* Schopf and Barghoorn, 1967

*Archaeosphaeroides barbertonensis* Schopf and Barghoorn, 1967, p. 501-512, figs. 1-4; algalike bodies; 28 km east-northeast of Barberton, eastern Transvaal, South Africa; Fig Tree series, upper Swaziland System, lower Precambrian.

*ARCTOPTERIS* Samylna

*Arctopteris kolymensis* Samylna, 1964, p. 50-53, pl. 3, figs. 5-8; pl. 4, figs. 1, 2; fern, Pteridaceae; Zyrinka coal basin, U.S.S.R.; Lower Cretaceous.

*ARCTOSTAPHYTES* Nikitin, 1976

*Arctostaphytes tertiaria* Nikitin, V. P., 1976, p. 186-187, pl. 71, figs. 33-36; seeds, Ericaceae; Mamontova Gora, eastern Siberia, U.S.S.R.; middle Miocene. ING

*ARCHAEOPOROLITHON* Pal and Ghosh, 1972

*Archaeoporolithon miocenicum* Pal and Ghosh, 1972, p. 191, pl. 3, figs. 10, 11; coralline algae; southeastern Cutch, India; lower Miocene.

*ARDISIA* Andreanszky, 1963

*Ardisia montis-stellae* Andreanszky, 1963, p. 241-242, fig. 8; fossil leaf; Csillaghegy, near Budapest, Hungary; lower Oligocene.

*ARISTOLOCHIOXYLON* Kulkarni and Patil, 1977

*Aristolochioxylon prakashii* Kulkarni and Patil, 1977, p. 44-49, 1 pl.; fossil wood; Nawargaoon, Wardha District, Maharashtra, India; Lower Tertiary.

*AROITES* Kovats, 1856

\**Aroites tallyanus* Kovats, 1856, Arbeiten Geol. Ges. Ungarn, v. 1, p. 48; spadix, Araceae; Tallya, Hungary; Cretaceous. ING

*ARTISOPHYTON* Pfefferkorn, 1976

*Artisophyton approximatum* Pfefferkorn, 1976, p. 5-6, fig. 4; new name for *Megaphyton approximatum* Lindley and Hutton, 1833-1835, Fossil flora of Great Britain or figures and descriptions of the



- vegetable remains found in a fossil state in this country, v. 2, pl. 116; tree fern compressions; Illinois, U.S.A.; Pennsylvanian.
- ARTOCARPOXYLON** Prakash and Lalitha, 1978
- Artocarpoxylon kartichcherraensis*, 1978, p. 132-133, 3 figs.; fossil wood, Moraceae; Kartichcherra, about 50 km south of Hailakandi, District Cachar, Assam, India; Tipam sandstones, Tertiary.
- ASANSOLIA** Pant and Misra, 1976
- Asansolia phegopteroides* Pant and Misra, 1976, p. 129-130, 3 pls.; foliage, Filicinae; Raniganj coal field, India; Raniganj Stage.
- ASCODESMISITES** Trivedi, Chaturvedi and Verma, 1973
- Ascodesmisites malayensis* Trivedi, Chaturvedi and Verma, 1973, p. 126-129, pl. 1, figs. 1-5; fossil fungus; Kuala Lumpur, Malaya; Tertiary, Eocene.
- ASPERIA** Semikhatov, 1978
- Asperia aspera* Semikhatov, 1978, p. 120-122, pl. 13, figs. 1-5; stromatolite; Canadian Shield; Aphebian.
- ASPHALTINELLA** Mamet and Roux, 1978
- Asphaltinella horowitzi* Mamet and Roux, 1978, p. 78, pl. 4, figs. 2-6; alga; northernmost Tennessee, U.S.A.; base of Namurian.
- ASTEROCAPSOIDES** Yin and Li, 1978
- Asterocapsoides sinensis* Yin and Li, 1978, p. 87, pl. 9, fig. 7; alga, Chroococcaceae; southwest China; Precambrian.
- ASTEROSTROMUM** Zanon, 1947
- \**Asterostromum salurnus* Zanon, 1947, Acta Pontif. Acad. Sci. v. 11, p. 48, 55; Chrysostomaceae; Quaternary. ING
- ASTRONIOXYLON** Suguio and Mussa, 1978
- Astronioxylon mainieri* Suguio and Mussa, 1978, p. 28-30, est. 1, figs. 1-4; wood, Anacardiaceae; Itaquaquecetuba, São Paulo City, Brazil; upper Pleistocene.
- ATALANTIOXYLON** Lakhanpal, Prakash and Bande, 1978
- Atalantioxylon indicum* Lakhanpal, Prakash and Bande, 1978, p. 198-199, pl. 3, figs. 13-17; fossil wood, Rutaceae; near the village of Mohgaon, Mandla District, Madhya Pradesh, India; Paleogene.
- ATRIAECARPUM** Chandler, 1978
- Atriaecarpum venablesi* (Chandler) Chandler, 1978, p. 21-22, pl. 4, figs. 4-5, fossil seed; Bognor, England; lower Aldwick beds, Tertiary.
- AUSTRALOXYLON** Marguerier, 1973
- Australoxylon teixeirae* Marguerier, 1973, p. 37-58, 6 pls.; fossil wood; District of Tete, Natal, Africa; Permian.
- AUSTROSEQUOIA** Peters and Christophel, 1978
- Austrosequoia wintonensis* Peters and Christophel, 1978, pl. 3119-3128, figs. 2-12; taxodaceous cone; 50 km north-west of Winton, Queensland, Australia; Upper Cretaceous.
- AUSTROSTROBUS** Morbelli and Petriella, 1973
- Austrostrobus ornatum* Morbelli and Petriella, 1973, p. 280-281, pls. 1, 2; a petrified lycopsid cone; Estancia Canadon Largo, Santa Cruz Province, Argentina; Triassic.
- AUSTROGLOSSA** Holmes, 1974
- Austroglossa walkomii* Holmes, 1974, p. 132-133, pl. 7, figs. 2, 3; female fructification, Glossopteridales; Kane's Flat, Cooyal, New South Wales, Australia; Upper Permian.
- AVERRHOITES** Hickey, 1977
- Averrhoites affinis* (Newberry) Hickey, 1977, p. 132, pl. 33, figs. 2, 3; pl. 35, figs. 1, 2; fossil leaves; Tertiary; new name for *Sapindus affinis* Newberry, 1868, p. 52.

B

**BAGEOPITYS** Dolms, 1976

*Bageopitys articulata* Dolms, 1976, p. 164-181, 5 pls.; fossil wood; 12 km from Bagé, Rio Grande do Sul, Brazil; Permian.

**BAICALIOR** Semikhalov, 1960

\**Baicalior prima* Semikhalov, 1960; stromatolite; Turukhansk region; Riphean, Precambrian.

**BALIOS** Tsao, Chen, and Chu, 1965

\**Balios pinuensis* (Tsao) Tsao, Chen, and Chu, 1974, p. 71, pl. 9, fig. 2; Cyanophyta; China; Sinian. Noticed in Cao Ruiji and Zhao Wenjie, 1978, p. 15. New name for *Praechrococcus pinguensis* Tsao, 1964.

**BALKHANELLA** Srivastava, 1973

*Balkhanella hurkai* Srivastava, 1973, p. 690-708, figs. 23-25; alga; Bolshoi Balkhan, U.S.S.R.; Neocomian, Lower Cretaceous. ING

**BARSASIOPHYTON** Stepanov, 1975

*Barsasiophyton aboriginum* Stepanov, 1975, p. 77, pl. 23, fig. 2; incertae sedis (?algoid); outskirts of Kuznetsk Basin, U.S.S.R.; Devonian.

- BARSASOPTERIS** Stepanov, 1967  
*\*Barsasopteris nativa* Stepanov, 1967. Noticed in S. A. Stepanov, 1975, p. 75-77, pl. 24; pl. 26, fig. 5; *Primofilices* incertae sedis; Devonian.
- BARSOSTROBUS** Fairon-Demaret, 1977  
*Barsostrobus famennensis* Fairon-Demaret, 1977, p. 56, pls. 1-5; lycophyta cone; near Barse, Belgium; upper Famennian, Upper Devonian.
- BATHURSTIA** Hueber, 1971  
*Bathurstia denticulata* Hueber, 1971, p. 9, pl. 1, fig. 4; pl. 3, figs. 1-5; stems, *Zosterophyllaceae*; Bathurst Island, Franklin District, Northwest Territories, Canada; Lower Devonian.
- BATINEVIA** Korde, 1966  
*Batinevia ramosa* Korde, 1966, p. 1440-1442, fig. 1; alga, *Epiphytaceae*; Kuznetsk Alatau Bol'shaya Natal'yeoka River, U.S.S.R.; Lower Paleozoic.
- BECKSPRINGIA** Licari, 1978  
*Beckspringia communis* Licari, 1978, p. 779-780, pl. 1, figs. 3-6; alga, *Nostocaceae*; eastern California, U.S.A.; upper pre-Phanerozoic.
- BELAYA** Shuyskiy, 1973  
*Belaya implicata* Shuyskiy, 1973, p. 45-46, fig. 14; pl. 3, fig. 3; algae, *Oscillatoriaceae*; western slope of the southern Urals, and the Belaya River, U.S.S.R.; Lower Devonian.
- BELONOPHYLLUM** Zalesskij, 1934  
*\*Belonophyllum acriculum* Zalesskij, 1934, Kamennougol'naja Fl. Severn. Kavkaza, p. 5, 17; leaves, *Lepidodendrales*; northern Caucasus; Carboniferous. ING
- BELOVSKOXYLON** Parfenova, 1965  
*\*Belovskoxylon cyclicus* Parfenova, 1965, *Izv. Tomsk. Politehn.-Inst.* v. 127, no. 2, p. 22, wood, incertae sedis; Pionerskaja Mine, Kemerovo District, Kuznetsk Basin, U.S.S.R.; Permian. ING
- BEVOSOLEN** Pia, 1940  
*\*Bevosolen huecenen* Pia, 1940, *Akad. Wiss. Wien, Math.-Naturwiss. Kl., Anz.*, v. 77, p. 59; *Codiaceae*; Hueco Mountains, Texas, U.S.A.; Upper Carboniferous and Lower Permian. ING
- BIGEMINOCOCCUS** Schopf and Blacic, 1971  
*Bigeminococcus lamellosus* Schopf and Blacic, 1971, p. 952-953, pl. 111, fig. 1a-c; alga; Ellery Gorge, 80 km west of Alice Springs, Australia; Precambrian.
- BIRISIA** Samylna, 1972  
*Birisia acutata* Samylna, 1972, p. 95-97, pl. 1, figs. 1-4; pl. 2, fig. 3; fern, *Dicksoniaceae*; Siberia, U.S.S.R.; Cretaceous.
- BIRSIOMYCES** Schaarschmidt, 1966  
*Birsiomyces pterophylli* Schaarschmidt, 1966, p. 78, pl. 16-21; fungi, *Ascoloculares*; Neuwelt near Basel, Switzerland; Triassic.
- BISCHOFINIUM** Bande, 1974  
*Bischofinium decanii* Bande, 1974, p. 191-194, pl. 2, figs. 6-10; wood, *Euphorbiaceae*; Parapani, Mandla District, Madhya Pradesh, India; lower Eocene.
- BIUMBELLA** Mamet, 1970  
*Biumbella braznikhvae* (Aizenberg and Braznikhova) Mamet, 1970, *Can. Jour. Earth Sci.*, v. 7, p. 1169, pl. 1, figs. 8-9; *Charophyceae*; Donetz Basin, Ukraine, U.S.S.R.; Upper Devonian and Lower Carboniferous. New name for *Umbella braznikhvae* Aizenberg and Braznikhova, 1966, pl. 19, figs. 1-3. ING
- BODEODENDRON** Wagner and Spinner, 1976  
*Bodeodendron hispanicum* Wagner and Spinner, 1976, p. 353-356, 2 pls.; lycophyte; Province de Ciudad Real, Spain; Stephanian.
- BOGUTCHANIA** Korde, 1965  
*Bogutchania angarica* Korde, 1965, p. 431, pl. 1, fig. 3; algae, *Entophysalidaceae*; near Boguchany, Krasnoyarsk Territory, U.S.S.R.; Ordovician.
- BORAGINOCARPUS** Mathur, 1974  
*Boraginocarpus lakhanpalii* Mathur, 1974, p. 44-48, figs. 3A, B; 4A-C; fossil seed, *Boraginaceae*; Saketri, near Chandigarh, India; Neogene.
- BOREOPTERIS** Mogucheva, 1973  
*Boreopteris evenkensis* Mogucheva, 1973, p. 44-47, pl. 3, figs. 1-3; pl. 4, figs. 1-6; pl. 5, figs. 1-7, 11; foliage, *Marattiaceae*; southern bank of Lake Severnogo, opposite the mouth of Eekli-Sen River, Tunguska Basin, eastern Siberian SFSR, U.S.S.R.; Lower Triassic.
- BOROROA** Petriella, 1972  
*Bororoea anzulovichii* Petriella, 1972, p. 216-221, pls. 6, 7; cycadales trunk, *Zamiaceae*; central Chubut (Cerro Bororo), southern Argentina; Tertiary.
- BOROVUCHKIA** Parfenova, 1965  
*\*Borovuchkia kemberoviana* Parfenova, 1965, *Izv. Tomsk. Politehn. Inst.*, v. 127, no. 2, p. 132; leaf, *Pteridophyta*; Borovus, Kemerovo District, Kuznetsk Basin, U.S.S.R.; Permian. ING
- BORUSSIELLA** Chachlov, 1940  
*\*Borussiella minima* Chachlov, 1940, *Trudy Nauk Konf. Izuc. Osvoenie Proizv. Sibiri*, v. 2, p. 192; leafy shoot, *Coniferales*; river Burus, Lower Tunguska

- River basin, U.S.S.R.; Lower Permian. ING
- BORYSTHENIA** Stanislavskii, 1976  
*Borysthenia fasciculata* Stanislavskii, 1976, p. 75-81, pl. 36, figs. 5b-7; pl. 43, figs. 1-4; pl. 44; pl. 45, figs. 1-8; pl. 47, figs. 1-3; fossil seeds, Cycadocarpidiaceae; Donetz Basin, U.S.S.R.; middle Keuper.
- BOSEA** Srivastava, 1973  
*Bosea indica* Srivastava, 1973, p. 19-21, pl. 1, figs. 1-12; microsporangiate fructification, incertae sedis; near Nidpur, Gopad River valley, Sidhi District, Madhya Pradesh, India; Triassic.
- BOSTONIA** Stein and Beck, 1978  
*Bostonia perplexa* Stein and Beck, 1978, p. 459-465, 8 figs.; calamopityan axis; near Boston, Kentucky, U.S.A.; Sanderson Formation, Lower Mississippian.
- BOSWELLIOXYLON** Dayal, 1964  
*Boswellioxylon indicum* Dayal, 1964, p. 683-684, figs. 1-3; fossil wood, Burseraceae; Keria, Madhya Pradesh, India; Deccan Intertrappean series, Eocene.
- BRANDENBERGIA** Mustafa, 1975  
*Brandenbergia meinertii* Mustafa, 1975, p. 122-128, pls. 7, 8; fossil leaves; Brandenburg-Schichten, Sauerland, Germany; Middle Devonian.
- BRASILESTILOXYLON** Mussa, 1978  
*Brasilestiloxylon piracicabense* Mussa, 1978, p. 118-122, pl. 1, figs. 1-5; wood; Pedreira Vitti, Piracicaba, Est. São Paulo, Brazil; Formação Irati, Grupo Passa Dois.
- BREVICHARA** Horn af Rantzien, 1956  
*Brevichara hordlensis* Horn af Rantzien, 1956, Micropaleontology, v. 2, p. 245; Charophyceae; Hordle Cliffs, Hampshire, England; upper Eocene. New name for *Chara wrightii* Reid and Groves, 1921, p. 183, pl. 4, fig. 1. ING
- BRYOTRICHUM** Yasui, 1926  
*Bryotrichum aichiense* Yasui, 1926, p. 18, pl. 1, figs. 1-6; musci, Bryaceae; Tertiary. ING
- BULLASPHAERA** Licari, 1978  
*Bullasphaera variegata* Licari, 1978, p. 789, pl. 3, fig. 6; alga, incertae sedis; eastern California, U.S.A.; upper pre-Phanerozoic.
- BURSEROXYLON** Prakash and Tripathi, 1973  
*Burseroxylon presurratum* Prakash and Tripathi, 1973, p. 58-60, pl. 4, figs. 19-25; fossil wood, ?Burserorylaceae; Sultanicherra, near Hailadandi, Cachar District, Assam, India; Tertiary.
- BUSCHMANNIA** Kaever and Richter, 1976  
*Buschmannia roeringi* Kaever and Richter, 1976, p. 27-33, pl. 4, figs. 1-5; Archaeocyatha; Southwest Africa; Lower Cambrian.
- BUTHELEZIA** Lacey, van Dijk, and Gordon-Gray, 1975  
*Buthelezia mooiensis* Lacey, van Dijk, and Gordon-Gray, 1975, p. 411-413, figs. on p. 412; small leafy shoots, incertae sedis; Mooi River district, Natal, South Africa; Upper Permian.
- BUTINELLA** Makarikhin, 1978  
*Butinella boreale* Makarikhin, 1978, p. 76-77, pl. 2, fig. 3; stromatolite; Karelia, U.S.S.R.; Yatulian.
- BYSMOCHARA** Grambast and Gutiérrez, 1977  
*Bysmochara conquensis* Grambast and Gutiérrez, 1977, p. 10-11, pl. 2, figs. 10-14; pl. 3, figs. 1-4; pl. 16, figs. 4a-b; charophyte; Torrecilla, ouest au km. 20, de la route allant Ribagorda, Spain; Campanian and Maastrichtian.
- C
- CABRIEROPORA** Mamet and Roux, 1975  
*Cabrieropora pokornyi* Mamet and Roux, 1975, algae, Dasycladaceae; Cabrières region (Montagne Noire), France; Carboniferous.
- CALATHOPTERIS** Long, 1976  
*Calathopteris heterophylla* Long, 1976, p. 327-335, pl. 1, figs. 1-10; pl. 2, figs. 11-23; pteridospermous axes; Oxroad Bay, East Lothian, Scotland; Lower Carboniferous.
- CALCINEMA** Bornemann, 1886  
*\*Calcinema triasinum* Bornemann, 1886, Jahrb. Koenigl. Preuss. Geol. Landesanst. 1885, p. 290; algae incertae sedis; Horstberg, Thuringen, Germany; Triassic. ING
- CALYPTOTHRIX** Schopf, 1968  
*Calypthothrix annulata* Schopf, 1968, p. 667-669, pl. 78, figs. 5-8; "alga," Oscillatoriaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.
- CAMPTONEMA** Chungying, 1977  
*Camptonema sinense* Chungying, 1977, p. 163, pls. 1, 2, figs. 1-15; blue-green algae; Xinghua of northern Kiangsu, China; Lower Tertiary.
- CANARIOPHYLLUM** Hickey, 1977  
*Canariophyllum ampla* Hickey, 1977, p. 134, pl. 35, figs. 3, 4; Mercer County,



- North Dakota, U.S.A.; Bear Den Member, Golden Valley Formation, Upper Paleocene.
- CANARIOXYLON** Prakash, Bresinova, and Awasthi, 1974  
*Canarioxylon ceskobudejovicense* Prakash, Bresinová, and Awasthi, 1974, p. 112-113, pl. 50, figs. 10, 12-13, 15; pl. 51, fig. 16; wood, Burseraceae; Dasny near Ceske Budejovice, South Bohemian Basin, Czechoslovakia.
- CANNAEPHYLLUM** Kristofovich, 1934  
*\*Cannaephyllum beringii* Kristofovich, 1934, Trudy Dal'nevost, Geol.-Razved. Tiesta, v. 62, p. 11; imprint of leaf, Zingiberales; Korf Gulf, Kamchatka, U.S.S.R.; middle Miocene. ING
- CARINALASPERMUM** Krassilov, 1976  
*Carinalaspermum mumbureicum* Krassilov, 1976, p. 66, pl. 33, figs. 1-11; Platanaceae.
- CARYOSPHEROIDES** Schopf, 1968  
*Caryosphaeroides pristina* Schopf, 1968, p. 677, pl. 85, figs. 1-3, 4?, 5; "alga," Chlorellaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.
- CASSINIUM** Prakash, 1973  
*Cassinium prefistulae* Prakash, 1973, p. 199-202, pl. 4, figs. 14, 16, 17; fossil wood, closest affinities are with the modern genus *Cassia*; Himachel Pradesh, India; lower Siwalik beds, middle Miocene.
- CASTANEOIDES** MacGinitie, 1974  
*Castaneoides aequalita* MacGinitie, 1974, p. 73-74, pl. 2, fig. 4; fossil leaf; Tipperary, Kisinger Lakes, Wyoming, U.S.A.; middle Eocene.
- CATHAIPTERIDIUM** Orlhel, 1966  
*Cathaipteridium minutum* (Halle) Orlhel, 1966, p. 442. New name for *Protopteridium minutum* Halle, 1936, p. 16, pls. 4, 5; Yunnan Province, China; Devonian.
- CATHAYSIODENDRON** Lee, 1963  
*\*Cathaysiodendron incertum* (Sze and Lee) Lee, 1963, Pal. sinica, n. s., A, v. 6, p. 127-128, pl. 21, fig. 166; pl. 19, fig. 6; north China; Stephanian.
- CATINELLA** Pflug, 1965  
*Catinella polymorpha* Pflug, 1965, p. 65-66, pl. 27, figs. 11-13; Clark Fork Quadrangle, Idaho-Montana, U.S.A.; Precambrian.
- CAUDICULOPHYCUS** Schopf, 1968  
*Caudiculophycus revularioides* Schopf, 1968, p. 679-680, pl. 79, figs. 3-6; incertae sedis, "alga," Oscillatoriaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.
- CAUDOPHYTON** Stepanov, 1967  
*\*Caudophyton aquatilis* Stepanov, 1967. Noted in Stepanov, S. A., 1975, p. 73, pls. 26, 27; Primofilices incertae sedis; Devonian.
- CAVEOPHYLLUM** Megatcheva, 1968  
*\*Caveophyllum guttiforme* Megatcheva, 1968, in Markovskiy, B. P., Novye Vidy Drevnih Rast. Bespozv., U.S.S.R.; Upper Triassic. ING
- CEPHALOPHYTARION** Schopf, 1968  
*Cephalophytarion grande* Schopf, 1968, p. 669, pl. 78, figs. 1-4; "alga," Oscillatoriaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.
- CHAETOCOCUS** Kuetzing, 1849  
*\*Chaetococcus violaceus* Kuetzing, F. T., 1849, Tabulae Phycol., v. 1, p. 51; algae incertae sedis. ING
- CHAKREA** Srivastava, 1974  
*Chakrea papillosa* Srivastava, 1974, p. 45-48, pl. 1, figs. 8-9; wheel-shaped plant organ; Nidpur, Sidhi District, M. P., India; Lower(?) and Middle Triassic.
- CHALEURIA** Andrews, Gensel, and Forbes, 1974  
*Chaleuria cirrosa* Andrews, Gensel, and Forbes, 1974, p. 387-407, pls. 52-57; fertile axes, incertae sedis; beach outcrop three-quarters of a mile west of Dalhousie Junction, New Brunswick, Canada; Middle Devonian.
- CHARIELLA** Birina  
*Chariella prisca* Birina, 1948, p. 155, pl. 1, fig. 3; algae incertae sedis; Bolohova, Moskovskaja District, U.S.S.R.; Upper Devonian. ING
- CHEIROPHYLLUM** Pant and Singh, 1978  
*Cheirophyllum lacerata* (Feistmantel) Pant and Singh, 1978, p. 353-362, pl. 1, 2; detached simple leaves; South Rewa Gondwana Basin, India; Karharbari Stage, lower Gondwana. New name for *Noeggerathiopsis lacerata* Feistmantel, 1886, pl. 15, figs. 1-3; pl. 17, figs. 2-3.
- CHHSIENELLA** Liang and Tsao, 1974  
*Chhsienella chhsienensis* Liang and Tsao, 1974, p. 14-15, pl. 6, figs. 1-2; pl. 7, fig. 2; alga, Corallinaceae; China; Sinian.
- CHINIANELLA** Ott, 1967  
*\*Chinianella ellenbergeri* (Lebouché and Lemoine) Ott, 1967, new name for *Cylindroporella ellenbergeri*; southern

- France; Lias.  
**CHITALEYPUSHPAM** Paradkar, 1971  
*Chitaleypushpam mohgaense* Paradkar, 1971, p. 334-338, figs. 1-10; pls. 1-2, figs. 1-11; a dicotyledonous fossil flower; Mohgaonkalan, Chhindwara District, Madhya Pradesh, India; Upper Cretaceous.
- CHLOROTYLITES** Howe, 1932  
*Chlorotylites berryi* Howe, 1932, p. 219-220, pl. 15, figs. 1-3; alga, Chlorophyceae; Sumter County, Alabama, U.S.A.; Sucarnooche Clay, lower Eocene. ING
- CHONDROSTROMA** Gürich, 1906  
*\*Chondrostroma* no sp. given Gürich, 1906, Mem. Mus. Roy. Hist. Nat. Belgique, v. 3, no. 12, p. 12, 45, 54; Cyanophyceae; Namur, Belgium; Lower Carboniferous, lower Viséan. ING
- CLADOCUPRESSINOXYLON** Hoffmann, 1884  
*\*Cladocupressinoxylon ucranicum* Hoffman, 1884, Z. Naturwiss, v. 57, p. 171; wood of branches, Coniferae; Verona, Italy; Cretaceous. ING
- CLADOGIRVANELLA** Ott, 1966  
*\*Cladogirvanella cipitensis* Ott, 1966, Mitt. Bayer. Staatssamml. Palaeont., v. 6, p. 162; Cyanophyceae; Cipitbach, Austria; Middle Triassic, upper Ladinian. ING
- CHLAMYDOSPORITES** Paradkar, 1975  
*Chlamydosporites gramineum* Paradkar, 1975, p. 96, pl. 1, fig. 4; fossil fungi; Mohgaon Kalan, District Chhindwara, M. P., India; Deccan Intertrappean series, Upper Cretaceous.
- CHOLOROGLOEAOPSIS** Maithy, 1975  
*Cholorogloeaopsis zairensis* Maithy, 1975, p. 139, pl. 3, figs. 21-23; algal, elongated colony, Entophysalidaceae; Kanshi, Zaire; Bushimay supergroup, upper Precambrian.
- CHRYSOHYLLOXYLON** Awasthi, 1975  
*Chrysophylloxyton pondicherriense* Awasthi, 1975, p. 21-22, pl. 1, figs. 1-3, 6; pl. 2, figs. 7, 8; fossil wood; Murattandichavadi, near Pondicherry, India; Cuddalore series, Miocene and Pliocene.
- CIRCULIMORPHA** Yin and Li, 1978  
*Circulimorpha concentrica* Yin and Li, 1978, p. 91, pl. 7, figs. 7-8; alga, Chlamydomonadaceae; southwest China; Precambrian.
- CLASSOSTROBUS** Alvin, Spicer, and Watson, 1978  
*Classostrobus rishra* (Barnard) Alvin, Spicer, and Watson, 1978, p. 850. New name for *Masculostrobus rishra* Bernard, 1968, p. 168, pl. 1; conifer male cone; Elburz Mountains, northern Iran; Upper Carboniferous.
- CLIBECA** Poncet, 1975  
*Clibeca devoniana* Poncet, 1975, p. 119-123, pl. 11, figs. 1-5; calcareous algae, Udoteaceae; Surtainville, Cotentin (Manche), France; Lower Devonian.
- CLOSTERIMOPSIS** Yin and Li, 1978  
*Closterimopsis curvus* Yin and Li, 1978, p. 94, pl. 8, fig. 10; alga, Dasymedaceae; southwest China; Precambrian.
- COELOTROCHIUM** Schlueter, 1879  
*\*Coelotrochium dechenia* Schlueter, 1879, Z. Deutsch. Geol. Ges., v. 31, p. 668; Dasycladaceae; Eifel, Germany; Middle Devonian. ING
- COLAXYLON** Koeniguer, 1973  
*Colaxylon coppensi* Koeniguer, 1973, p. 192-195, pl. 1, figs. 1-3; fossil plant, Sterculiaceae; l'oasis de Kirdimi, Tchad; Devonian.
- COLUMBIAPORA** Mamet, 1974  
*Columbiapora johnsoni* Mamet, 1974, p. 44, pl. 3, figs. 5-12; alga, Dasycladaceae; region of Mt. Hannington, British Columbia, Canada; Tournaisian.
- COMBRETOPHYLLUM** Puri, 1966  
*Combretophyllum josiensis* Puri, 1966, p. 239, pl. 3, figs. 10, 11; angiospermic leaf fragments, Combretaceae; Jos Plateau, Nigeria; Tertiary.
- COMBRETOXYLON** Lemoigne, 1978  
*Combretoxylon desrotoris* Lemoigne, 1978, p. 110-111, pl. 5, figs. 10-15; fossil wood; Pont sur l'Omo, Ethiopia; Miocene.
- CONDOMAEPHYTON** Radcenko and Petrosjan, 1960  
*\*Condomaephyton gracile* Radcenko, G. P. and Petrosjan, M. M., 1960, Vesesojuzn. Nauk Geol. Inst. Inform. Sbornik, v. 24, p. 102; stem, incertae sedis; Kondoma River, Kemerovo District, Siberia, U.S.S.R.; Upper Devonian. ING
- CONFUNDA** Semikhatov, 1978  
*Confunda confuta* Semikhatov, 1978, p. 133-136, pl. 19, figs. 1-5; stromatolite; Canadian Shield; Aphebian.
- CONGLOBORELLA** Licari, 1978  
*Congloborella trozzelli* Licari, 1978, p. 788-789, pl. 2, fig. 4; alga, incertae sedis; eastern California; upper pre-Phanerozoic.
- CONDOMAJELLA** Radcenko, 1969  
*Condomajella typica* Radcenko, 1969, p. 173; gymnospermous seed; Permian. *C. tankaensis* Radcenko, 1969, p. 27, fig. 14 in Sukhov, 1969, validates the genus.



- CONIOPTERIDIUM** Kirichkova and Pavlov, 1965  
*Coniopteridium sibiricum* Kirichkova and Pavlov, 1965, p. 118-120, pl. 11, figs. 1-11; sterile leaves, Dicksoniaceae; lower reaches of the river Sitte, a left tributary of the Lena, U.S.S.R.; Lower Cretaceous.
- CONIPORELLA** Fischer and Thierry, 1971  
*Coniporella clavaeformis* (d'Archaic) Fischer and Thierry, 1971, p. 25-34. New name for *Conipora clavaeformis* d'Archaic, 1843.
- CONOCOLLENIA** Maslov, 1960  
*Conocollenia glebulosa* Maslov, 1960, p. 78, pl. 21, figs. 4-5; alga; Siberian platform, U.S.S.R.; Ordovician.
- CONODICTYUM** Goldfuss, 1832  
*Conodictyum striatum* (Münster M.S.) Goldfuss, 1832, p. 104, pl. 37; algae, Dasycladaceae; Baviere, Germany; upper Oxfordian. Originally described as an animal but generally considered to be an alga, see Fischer, J. C. and J. Thierry, 1971, p. 26. ING
- CONTORTOTHRIX** Schopf, 1968  
*Contortothrix vermiformis* Schopf, 1968, p. 670-671, pl. 79, figs. 7, 8; "alga," Oscillatoriaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.
- CONTORTONEMA** Schopf and Blacic, 1971  
*Contortonema vermiforme* (Schopf) Schopf and Blacic, 1971, p. 956. Name change of *Cortortothrix vermiformis* Schopf, 1968, p. 671, pl. 79, figs. 7, 8.
- COOKSONELLA** Senkevitch, 1978  
*Cooksonella sphaerica* Senkevitch, 1978, p. 288-292; figs. 1-3; psilophytales; Devonian.
- CORNUSPERMUM** Banerjee, 1969  
*Cornuspermum pennatus* Banerjee, 1969, p. 361-364, pls. 2-3, figs. 8-17; glossopteridian seeds; Murulidh collieries, Bihar, India; Mohuda seam, Raniganj Stage, Upper Permian.
- CORYMBOSTONUM** Zanon, 1947  
*\*Corymbostonum ivanoffii* Zanon, 1947, Acta Pontif. Acad. Sci., v. 11, p. 48, 54; Chrysosomataceae; Quaternary. ING
- COSTAPALMA** Daghljan, 1978  
*Costapalma philippii* Daghljan, 1978, p. 72, pl. 6, figs. 22-23; pl. 7, figs. 25-26; pl. 8, figs. 31-33; fossil palm leaves; Lamkin clay pit, Hickory Quadrangle, Kentucky, U.S.A.; Claiborne Group, middle Eocene.
- COSTATHECA** Hall, 1967  
*Costatheca (Chrysotheca) discoensis* (Miner) Hall, 1967, p. 1298; "perianth," Jungermanniales (Bryophyta); Greenland; Upper Cretaceous.
- COSTATUMBELLA** Berchenko, 1974  
*Costatumbella ukrainica* Berchenko, 1974, p. 107-108, pl. 1, figs. 13, 14; Charophyceae; Dneiper, Donets Basin, Ukraine, U.S.S.R.; Upper Devonian.
- COURVOISIELLA** Niklas, 1976  
*Courvoisiella ctenomorpha* Niklas, 1976, p. 187-203, pl. 1, figs. 1-9; pl. 2, figs. 1-12; siphonous alga; 3.5 km west of Valley Head, West Virginia, U.S.A.; Upper Devonian.
- COUMOXYLON** Gottwald, 1976  
*Coumoxylon hartigii* Gottwald, 1976, p. 283-290, pl. 40-41; fossil wood; Tagebau Neumark-Sud, Saxony, Germany; middle Eocene.
- CRAIBIOXYLON** Lemoigne, 1978  
*Craibioxylon welkitii* (Lemoigne and Beauchamp, 1972) Lemoigne, 1978, p. 109-110, pl. 3, figs. 1-8; fossil wood; Welkite, Ethiopia; Miocene. New name for *Leguminosylon welkitii* Lemoigne and Beauchamp, 1972.
- CRIBRITES** Lange, 1978  
*Cribrites aurea* Lange, 1978, p. 534, figs. 5, 7, 8; fossil fungi; Golden Grove, South Australia; middle Eocene.
- CRINELLA** Sokac and Nikler, 1973  
*Crinella carsica* Sokac and Nikler, 1973, p. 18-19, pl. 13, figs. 1-11; calcareous algae, Dasycladaceae; Montenegro, Yugoslavia; Barremian and Aptian. ING
- CRISTOPHYTON** Stepanov, 1965  
*\*Cristophyton kuznetskianum* Stepanov, 1965. Noticed in Stepanov, S. A., 1975, p. 77-78, pl. 3, fig. 1; Primofilices incertae sedis; Devonian.
- CRUSTELLA** Maslov, 1960  
*Crustella stylostromica porosa* Maslov, 1960, p. 86, pl. 17, figs. 1-3; alga; Siberian platform, U.S.S.R.; Ordovician.
- CRUSTOPHYCUS** Vologdin, 1962  
*\*Crustophycus angaricus* Vologdin, A. G., 1962, Drevn. Vodorosli. U.S.S.R., p. 195; Cyanophyceae-Crustophycaceae; Angara River, Krasnoyarsk Territory, U.S.S.R.; upper Precambrian. ING
- CULCITITES** Appert, 1973  
*Culcitites madagascariensis* Appert, 1973, p. 35, pls. 47-53; Dicksoniaceae; Ambatomainity, Bereich, Madagascar; Upper Jurassic.
- CYANONEMA** Schopf, 1968  
*Cyanonema attenuata* Schopf, 1968, p. 670, pl. 7, figs. 1, 2; "alga," Oscillatoriaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter

- Springs Formation, upper Precambrian. Species name changed to *C. attenuatum* in Schopf and Blacic, 1971, p. 956.
- CYANOSTROMA** Vologdin, 1962  
*\*Cyanostroma turuchanicum* Vologdin, A. G., 1962, Drevn. Vodorosli U.S.S.R., p. 287; Cyanophyceae-Plexostromataceae; Yenisey River, Krasnoyarsk Territory, U.S.S.R.; upper Precambrian. ING
- CYCADINORACHIS** Sharma, 1973  
*Cycadinorachis omegoides* Sharma, 1973, p. 48, pl. 1, figs. 5-7; rachis, Cycadales; Rajmahal Hills, Bihar, India; Jurassic. ING
- CYCLISTOMORPHITES** Yin and Li, 1978  
*Cyclistomorphites laxus* Yin and Li, 1978, p. 96, pl. 9, fig. 8; algae incertae sedis; southwest China; Precambrian.
- CYCLOSPHENOPTERIS** Stopa, 1957  
*\*Cyclospenopteris striata* (Gothan) Stopa, 1957; Sphenopterideae; Silesia, Poland; Westphalian (A?). New name for *Sphenopteris striata* Gothan, 1913, Abh. Königl. Preuss. Geolog. Landesanst., N. F., v. 75, p. 24, pl. 5, fig. 2; pl. 6, fig. 3.
- CYCLOSTROBUS** Helby and Martin, 1965  
*Cyclostrobos sydneyensis* (Walkom) Helby and Martin, 1965, Austral. Jour. Botany, v. 13, p. 391, pl. 1, figs. 3, 5, 6; pl. 2, figs. 10, 11, 18; pl. 3, figs. 22-27; cone with megaspores and microspores; Australia; Lower Triassic. New name for *Araucarites sydneyensis* Walkom. ING
- D
- DABEROCARPON** Chitaley and Sheikh, 1971  
*Daberocarpon gerhardii* Chitaley and Sheikh, 1971, p. 297-299, pl. 1, figs. 1-7; a schizocarpic fruit, possibly Malvaceae; Mohgaon-kalan, Chhindwara District, India; uppermost(?) Cretaceous.
- DAMUDOSORUS** Pant and Misra, 1977  
*Damudosorus searsolensis* Pant and Misra, 1977, p. 77-79, pl. 1, figs. 1-9; pectopterid leaves; Raniganj coal field, West Bengal, India; Raniganj Stage, lower Gondwana.
- DAMUDOPTERIS** Pant and Khara, 1972  
*\*Damudopteris polymorpha* (Feistmantel) Pant and Khara, 1972, p. 121-135; sphenopterid fern frond; Raniganj coal field, West Bengal, India; Raniganj Stage of the Damuda series. According to Maithy, P. K., 1973, *Damudopteris* is invalid as *Neomariopteris* was published one month earlier and both are based on the same material of Feistmantel.
- DANAEPHYLLUM** Grebenca, 1928  
*\*Danaephyllum narbornense* Grebenca, O. A., 1928, Izv. Assoc. Nauc. Inst. Fiz.-Mat. Fak. Perv. Moskovsk Gosud. Univ., v. 1, nos. 1-2, p. 56; branch with leaves, Liliaceae; Armisann, near Narbonne, France; Tertiary, Aquitanian. ING
- DECCANANTHUS** Chitaley and Kate, 1972  
*Deccananthus savitrii* Chitaley and Kate, 1972, p. 317-319, pl. 1, figs. 1-6; a petrified flower, incertae sedis; Mohgaon-kalan, Chhindwara District, Madhya Pradesh, India; uppermost(?) Cretaceous.
- DENKANIA** Surange and Chandra, 1971  
*Denkania indica* Surange and Chandra, 1971, p. 264-268, 2 pls., 4 figs.; female reproductive organ, Glossopteridales; Handappa, Orissa, India; Upper Permian.
- DESMIDOPSIS** Yin and Li, 1978  
*Desmidopsis prima* Yin and Li, 1978, p. 94, pl. 8, fig. 6; alga, Dasmidaceae; southwest China; Precambrian.
- DESMOPOROXYLON** Lepekhina and Yatsenko-Kmelevsky, 1966  
*Desmoporoxylon newberryi* (Dawson) Lepekhina and Yatsenko-Khmelevsky, 1966, p. 68, new name for *Dadoxylon newberryi* Dawson, 1871, p. 14, pl. 1, figs. 7-9; wood of pycnoxylic plant; Ohio, U.S.A.; Middle Devonian, Hamilton Group. ING
- DETARIOPHYLLUM** Louvet and Mouton, 1970  
*Detariophyllum coquinense* Louvet and Mouton, 1970, p. 85-87, pl. 3; fossil leaf; Libya; Oligocene.
- DICHOTOMOPTERIS** Maithy, 1972  
*Dichotomopteris major* (Feistmantel) Maithy, 1972, p. 365-366, pl. 1, figs. 1-4; new name for *Merianopteris major* Feistmantel, 1881, p. 83, pl. 19A, figs. 9-11; fern; Raniganj coal field, West Bengal, India; Permian.
- DICTYOSPHAERIDIUM** Timofeev, 1969  
*\*Dictyosphaeridium tungusum* Timofeev, 1969, Sferomorfidy proterozoa, p. 18, pl. 4, fig. 2.
- DIETTERTIA** Brown and Robison, 1974  
*Dietteria montanensis* Brown and Robison, 1974, p. 170-173, 6 figs.; moss gametophyte; Great Falls, Cascade County, north-central Montana, U.S.A.; Lower Cretaceous.
- DIMORPHOSIPHONOIDES** Guilbault and Mamet, 1976  
*Dimorphosiphonoides lespencei* Guilbault and Mamet, 1976, p. 645-646,



- pl. 4, figs. 7, 8; alga; Saint-Vincent-de-Paul, Canada; Formation de Lowville, Ordovician.
- DINARELLA** Sokac and Nikler, 1969  
*Dinarella kochi* Sokac and Nikler, 1969, p. 303, pls. 1, 2; calcareous algae, Dasycladaceae; Velebit Mountain, Yugoslavia; lower Lias. ING
- DIOSCOREAEACARPUM** Andreanszky, 1959  
*Dioscoreaecarpum marginatum* Andreanszky, G., 1959, Acta Bot. Akad. Sci. Hung., v. 5, p. 21, pl. 4, figs. 20, 21; fruit, Diosioreaaceae; Kiseged, near Eger, Hungary; lower Oligocene. ING
- DIOSPYROPSIS** Korovin, 1956  
*Diospyropsis microcarpa* Korovin, E. P., 1956, p. 835, not illustrated; fructification, Ebenaceae; Er-Orlan-Duz Lake, Badkhyz, Turkmenistan, U.S.S.R.; Paleogene. ING
- DIPHYLLOPTERIS** Srivastava, 1978  
*Diphylopteris verticillata* Srivastava, 1978, p. 486-488, pl. 1, figs. 1-3; leaves attached in a whorl; Auranga coal field, Bihar, India; lower Gondwana, Upper Permian.
- DIPLOLEPIDODENDRON** Lejal-Nicol, 1975  
*Diplolepidodendron costulatum* Lejal-Nicol, 1975, p. 60-63, pl. 1, fig. 1; pl. 2, figs. 7-9, 11; pl. 5, fig. 25; axes, Protolipidodendraceae; Mourzouk Basin, Libya; Lower Devonian.
- DIPLONEUROSPORA** Jain and Gupta, 1970  
*Diploneurospora tewarii* Jain and Gupta, 1970, p. 180, pl. 1, fig. 21; fungus, Microthyriaceae; Padappakara (11 km northeast of Quilon), western Ghat, India; Tertiary, Miocene.
- DIPLOPORUNDUS** Bock, 1961  
*\*Diploporundus rugosus* Bock, W., 1961, Proc. Pennsylvania Acad. Sci., v. 35, p. 78; Dasycladaceae; Gwynedd, Pennsylvania, U.S.A.; Upper Triassic. ING
- DIRHOPALOSTACHYS** Prynada (MS), fide Krassilov, 1975  
*Dirhopalostachys rostrata* Prynada (MS), fide Krassilov, 1975, p. 103-104, pl. 1, figs. 1-17; pl. 2, figs. 18-30; pl. 3, figs. 31-43; pl. 5, figs. 60-64; proangiosperm, Dirhopalostachyaceae; Urgal and Bureya River valleys, U.S.S.R.; Upper Jurassic to Lower Cretaceous.
- DISCINELLA** Xing-Xue and Chong-Yang, 1978  
*Discinella cuiyengshanensis* Xing-Xue and Chong-Yang, 1978, p. 9, pl. 1, figs. 1-2, 2a; algae incertae sedis; East Yunnan, southwest China; Lower Devonian.
- DISCORSIA** Semikhatov, 1978  
*Discorsia discorsa* Semikhatov, 1978, p. 136-138, pl. 20, figs. 1, 2; pl. 21, figs. 1, 2; stromatolite; Canadian Shield; Aphebian.
- DISTICHOPLAX** Pia, 1934  
*\*Distichoplax biserialis* (W. O. Dietrich) Pia, 1934, Vestn. Statniho Geol. Ustavu. Ceskoslav. Republ., v. 10, p. 18; Rhodophyceae-Corallinaceae; between Kirtaka and Sajindek, Baluchistan, Pakistan; upper Eocene. New name for *Lithothamnium biserialis* W. O. Dietrich. ING
- DISTICHOTHECA**, 1974  
*Distichotheca crossothecoides*, 1974, p. 167, pl. 129, figs. 1-4; fructifications, Coniferae; China; Carboniferous. In Paleozoic plants of China: Nanking Inst. Geol. and Paleont. 1974 (in Chinese).
- DOBUNNIELLA** Elliott, 1975  
*Dobunniella coriniensis* Elliott, 1975, p. 358, 360-361, pl. 49, figs. 1, 2; pl. 50, fig. 1; algae, Dasycladaceae; Cirencester, Gloucestershire, England; Middle Jurassic.
- DONEGGIA** Rothwell, 1978  
*Doneggia complura* Rothwell, 1978, p. 3096-3104, figs. 1-22; filicalean fern; 8 km west of Steubenville, Ohio, U.S.A.; Upper Pennsylvanian.
- DORDRECHTITES** Anderson, 1978  
*Dordrechtites elongatus* Anderson, 1978, p. 62-63, pl. 4, figs. 1-21; pl. 5, figs. 1-14; pl. 6, figs. 3, 4; pl. 8, fig. 3; T-shaped scale, Coniferales; Dordrecht II (Bird's River), South Africa; Molteno Formation, Upper Triassic.
- DORFIELLA** Weber, 1976  
*Dorfiella auriculata* Weber, 1976, p. 1-13, 3 pls.; fossil water fern; Nueva Rosita no. 6 coal mine, Coahuila, Mexico; Olmos Formation, lower or middle Maestrichtian.
- DUGHIELLA** Feist-Castel, 1975  
*Dughietta bacillaris* Feist-Castel, 1975, p. 89, pl. 1, figs. 1-9; Charophyceae; Aix-en-Provence Basin, Bouches-du-Rhone, France; upper Paleocene. ING
- DUNEDOOIA** Holmes, 1977  
*Dunedooia reticulata* Holmes, 1977, p. 52-57, 1. pl.; fossil pinnate leaf; Cobborah, New South Wales, Australia; Dunedoo Formation, Permian.
- DUTROELLA** Mamet and Roux, 1978  
*Dutroella scotti* Mamet and Roux, 1978, p. 75-76, pl. 3, figs. 3-4; dasycladacean alga; northernmost Tennessee, U.S.A.; upper Viséan.

**DZHULFANELLA** Korde, 1965

- Dzhulfanella gelatinosa* Korde, 1965, p. 273, pl. 51, figs. 2-6; Rhodophyceae; Dzhagdy River, near Ogbin, Armenia, U.S.S.R.; Upper Permian. ING

## E

**EDYNDELLA** Mogucheva, 1973

- Edyndella dentata* Mogucheva, 1973, p. 83-85, pl. 6, figs. 1-9; pl. 37, figs. 1-5; foliage, incertae sedis; Tunguska Basin, eastern Siberian SFSR, U.S.S.R.; Lower Triassic.

**EIRENE** Gorelova, 1973

- Eirene asteriscus* Gorelova, in Gorelova, Men'shikova and Khalfin, 1973, pt. 1, p. 93-95; pt. 2, pl. 19, figs. 10, 11; arthropyte, incertae sedis; Kuznetsk Basin, Kemerovo, U.S.S.R.; Carboniferous.

**ELATRA** Appert, 1977

- Elatra bella* Appert, 1977, p. 25-27, pl. 32, figs. 1-4; ?Glossopteridales; Sakoa coal basin, southwest of Madagascar; lower Gondwana.

**ELENIA** Pojarkov, 1965

- Elenia famena* (Bykova) Pajarkov, 1965, p. 730; alga, Umbellaceae; Uryupinsk District, Stalingrad region, U.S.S.R.; Upper Devonian. New name for *Umbella famena* Bykova, 1955, in Bykova and Polenova, p. 43, pl. 9, fig. 7; pl. 15, figs. 3, 5. ING

**ELEONORA** Bertrand-Sarfati and Caby, 1976

- Eleonora ramosa* Bertrand-Sarfati and Caby, 1976, p. 22, figs. 13a, d; stromatolite; Eleonore Bay, Greenland; Precambrian.

**ELLESMERIA** Sveshnikova, 1975

- Ellesmeria juniperoides* Sveshnikova, 1975, Botanicheskii Zhurn., v. 60, p. 372-373, pl. 1, figs. 27a, 28a, 29, 30; Compressaceae; Ellesmere Island, Northwest Territories, Canada; Tertiary.

**EMPLECTOPHYCUS** Xing-Xue and Chong-Yang, 1978

- Emplectophycus yunnanensis* Xing-Xue and Chong-Yang, 1978, p. 10, pl. 1, figs. 22, 23; algae incertae sedis; East Yunnan, southwest China; Lower Devonian.

**ENCRUSTA** Daley, 1974

- Encrusta psalliota* Daley, 1974, p. 16-18, pl. 2, figs. 1-4; pl. 3, figs. 1-3; calcified alga, Scytonemaceae; Isle of Wight, Hampshire, England; Oligocene.

**ENDOINA** Korde, 1965

- Endoina stellata* Korde, 1965, p. 282, pl.

- 57, figs. 1-3; Dasycladaceae; Nakhuhevanskaya, U.S.S.R.; Upper Permian. ING

**ENTANDROPHRAGMINIUM** Prakash, 1976

- Entandrophragminium aegyptianum* Prakash, 1976, p. 502-504, pl. 90, figs. 4-6, pl. 91, figs. 1-4; fossil wood; Cairo, Egypt; probably Tertiary.

**ENTOPELTACITES** Selkirk, 1972

- Entopeltacites osbornii* (Lange) Selkirk, 1972, p. 143, pl. 7, figs. 1-4; fungi; South Maslin Sands, South Australia; Eocene. New name for *Marginula osbornii* Lange. ING

**EODASYCLADUS** Cros and Lemoine, 1966

- Eodasyclus ogilviae* Cros and Lemoine, 1966, p. 161-163, pl. 1, figs. 3-7; alga, Dasycladaceae; l'Alpe Fanes, France; Lias.

**EOKACHYRA** Crepet, Dilcher, and Potter, 1975

- Eokachyra aeolius* Crepet, Dilcher, and Potter, 1975, p. 813-823, figs. 1-25; a catkin with juglandaceous affinities; Weakley County, Tennessee, U.S.A.; middle Eocene.

**EOMIMOSOIDEA** Crepet and Dilcher, 1977

- Eomimosoidea plumosa* Crepet and Dilcher, 1977, p. 714-725, 17 figs.; mimosoidean inflorescence; Warman clay pit, Weakley County, Tennessee, U.S.A.; middle Eocene, Claiborne Formation.

**EOMYCETOPSIS** Schopf, 1968

- Eomycetopsis robusta* Schopf, 1968, p. 684-685, pl. 82, figs. 2, 3; incertae sedis; "alga," Eumycophyta (?); 40 miles east-northeast of Alice Springs, Northern Territory, Australia; upper Precambrian, Bitter Springs Formation.

**EOSTANGERIA** Barthel, 1976

- Eostangeria saxonica* Barthel, 1976, p. 466-471, pls. 87-88; fossil leaf; Tagebau Böhlen; middle to upper Eocene.

**EOTETRAHEDRION** Schopf and Blacic, 1971

- Eotetrahedron princeps* Schopf and Blacic, 1971, p. 955-956, pl. 112, fig. 1, 2(?); alga; Ellery Gorge, 80 km west of Alice Springs, Northern Territory, Australia; Precambrian.

**EOUMBELLA** Platonov, 1974

- Eoumbella ollaria* (Bykova, 1955) Platonov, 1974, p. 109-110, pl. 9, figs. 15-17; charophyte. New name for *Umbella ollaria* Bykova, 1955.

**EOVELEBITELLA** Vachard, 1974

- Eovelebitella occitanica* Vachard, 1974, p.

- 1855-1858, fig. 2; Dasycladaceae; Vailhan, Herault, France; Lower Carboniferous. ING
- EOVOLVOX** Kaźmierczak, 1975  
*Eovolvox silesiensis* Kaźmierczak, 1975, p. 76-81, pl. 17, figs. 1, 2; pl. 18, figs. 1-3; pl. 19, figs. 1, 3-4; pl. 20, figs. 1-6; colonial algae, Volvocaceae; town of Sosnowiec, Katowice District, Upper Silesia, southern Poland; Upper Devonian.
- EOZYGION** Schopf and Blacic, 1971  
*Eozygion grande* Schopf and Blacic, 1971, p. 953-954, pl. 111, figs. 2a-c, 6?, 7?; pl. 112, figs. 5a, b; alga; Ellery Gorge, 80 km west of Alice Springs, Northern Territory, Australia; Precambrian.
- EPIVALVIA** Daley, 1974  
*Epivalvia edwardsii* Daley, 1974, p. 15-16,  
 pl. 1, figs. 1-3; calcified alga, Scytonemaceae; Isle of Wight, Hampshire, England; Oligocene.
- EQUITATILEPIS** Pant and Basu, 1977  
*Equitatilepis elongatus* Pant and Basu, 1977, p. 175, pl. 3, figs. 17-21; fossil scale; Nidpur, India; Triassic.
- EREMODENDRON** Chachlov, 1940  
*Eremodendron articulatum* Chachlov, 1940, p. 509; stem, Lycopodiopsida; river Batoy, near Krasnoyarsk, U.S.S.R.; Upper Devonian.
- EREMOSIMORPHA** Yin and Li, 1978  
*Eremosimorpha elliptica* Yin and Li, 1978, p. 91, pl. 8, fig. 5; alga, Eremosphaeraceae?; southwest China; Precambrian.
- EREVANELLA** Maslov, 1962  
*Erevanella flavellosa* Maslov, 1962, p. 129, text fig. 99; Rhodophyceae-Ungdarellaceae; Vedi area, Armenia, U.S.S.R.; Middle Permian.
- ERICOXYLON** Hofmann, 1939  
*\*Ericoxylon arboreum* E. Hofmann, 1939, Tisia, v. 3, p. 267; wood, Ericaceae; Tokay-Eperjesi Mountains, Hungary; upper Miocene. ING
- ERITHRINAPHYLLUM** Louvet and Mouton, 1970  
*Erithrinaphyllum parvisenegalense* Louvet and Mouton, 1970, p. 92-94, pl. 4, fig. 4; fossil leaf; Coquin, Libya; Oligocene.
- ESTINNOPHYTON** Fairon-Demaret, 1978  
*Estinnophyton gracile* Fairon-Demaret, 1978, p. 597-610, figs. 1-9; plant remains; Estinnes-au-Mont, east of Binche, Belgium; lower Siegenian.
- EUROPHYLLITES** Gluchova, 1978  
*Europhyllites crassus* (Renault) Gluchova, 1978, (sensu Harms and Leisman, 1961), p. 534, illustrated in Harms and Leisman, 1961; fossil leaves; Iowa, U.S.A.; Pennsylvanian. New name of *Cordaites crassus* Harms and Leisman, 1961.
- EUSPONDYLOPORELLA** Sokač and Nikler, 1973  
*Euspodylopora duplicata* Sokač and Nikler, 1973, p. 22-25, pl. 10, fig. 5; pl. 11, figs. 1-4; pl. 12, figs. 1-4; cylindrical calcareous thallus, Dasycladaceae; Montenegro, Yugoslavia; Barremian and Aptian.
- EUTHURSOPHYTON** Mustafa, 1978  
*Euthursophyton hamperbachense* Mustafa, 1978, p. 94-97, pl. 9, figs. 11, 12; axes; Hamperbach-Tel, Sauerland, Germany; Devonian, Brandenburg beds.
- EUXYLOPHOROXYLON** Petriella, 1972  
*Euxylophoroxylon chiquichanense* Petriella, 1972, p. 190-195, figs. 5A-B; pl. 4, figs. A, B, C, and E; wood, Rutaceae; central Chubut (Cerro Bororo), southern Argentina; Tertiary.
- EXTERNIA** Semikhatov, 1978  
*Externia externa* Semikhatov, 1978, p. 122-125, pl. 14, figs. 1-4; stromatolite; Canadian Shield; Aphebian.
- F
- FANESELLA** Cros and Lemoine, 1966  
*Fanesella dolomitica* Cros and Lemoine, 1966, p. 164, pl. 2, figs. 1, 3, 5; Dasycladaceae with a cylindrical calcareous sleeve; Dolomites, Italy; Lias.
- FASCIELLA** Ivanova, 1973  
*Fasciella kizilia* Ivanova, 1973, p. 39, pl. 21, fig. 2; pl. 27, fig. 6; ?Chlorophyta; Oural [Urals, U.S.S.R.?]; Carboniferous.
- FASCIPTERIS**, 1974  
*Fascipteris hallei* (Kaw.), 1974, p. 99, pl. 68, figs. 8-12; leaflets, Pecopterides; China; Carboniferous. In Paleozoic plants of China: Nanking Inst. Geol. and Palaeont., 1974 (in Chinese). New name for *Validopteris hallei* (Kaw.) Stockm. and Math.
- FERAXOTHECA** Millay and Taylor, 1977  
*Feraxotheca culcitaus* Millay and Taylor, 1977, p. 177-185, 14 figs., lyginopterid pollen organ; Lewis Creek, Kentucky, U.S.A.; Lower to lower Middle Pennsylvanian.
- FERGANIELLA** Prynada, 1935  
*\*Ferganiella urjancharica* Prynada, V. D., 1935, in Neuberg, M. F., Trudy Geol. Inst. Akad. Nauk, U.S.S.R., v. 5, p. 151;



- leaf, Podozamitaceae; right bank of Byhem River, Tuva Autonomous District, U.S.S.R.; Jurassic. ING
- FERGANODENDRON** Dobruskina, 1974  
*Ferganodendron sauktangensis* (Sixel) Dobruskina, 1974, p. 389, pl. 10, figs. 1-7; lepidophyte; southern Fergana, Madygen; lower and middle Keuper. New name for *Sigillaria sauktangensis* Sixel, 1962, p. 302-304, pl. 4, figs. 1-6.
- FETURA** Benecke, 1976  
*Fetura natalensis* Benecke, 1976, p. 102-104, figs. 25-41; fructifications; Mooi River National Road, Natal, South Africa; Upper Permian.
- FIBULARIX** Pflug, 1965  
*Fibularix funicula* Pflug, 1965, p. 18, pl. 3, figs. 1-3; algae incertae sedis; Clark Fork Quadrangle, Idaho-Montana, U.S.A.; Precambrian. ING
- FILAMENTELLA** Pflug, 1965  
*Filamentella plurima* Pflug, 1965, p. 19, pl. 4, figs. 1, 6-8, 12-15; Cyanophyceae; Clark Fork Quadrangle, Idaho-Montana, U.S.A.; Precambrian. ING
- FILICONSTRICTOSUS** Schopf and Blacic, 1971  
*Filiconstrictosus majusculus* Schopf and Blacic, 1971, p. 947-948; pl. 105, fig. 8, alga; Ellery Gorge, 80 km west of Alice Springs, Northern Territory, Australia; Precambrian.
- FLABELLIA** Shuyskiy, 1973  
*Flabellia basifixa* Shuyskiy, 1973, p. 51-53, pl. 7, figs. 1-4; algae, Pulvinulariaceae (?); Vaygach Island, western slope of the central and southern Urals, Serga and Belaya Rivers, U.S.S.R.; Lower Devonian.
- FOSELLA** Maslov, 1960  
*Fossella cerebriformis* Maslov, 1960, p. 84, pl. 24, figs. 3-6; pl. 26, fig. 2; alga; Siberian platform, U.S.S.R.; Ordovician.
- FOVELITA** Nikitin, 1976  
*Fovelita rubiforme* Nikitin, 1976, p. 192, pl. 74, figs. 8-14; seeds; Mamontova Gora, Siberia, U.S.S.R.; middle Miocene. ING
- FREDERICA** Barta-Calmus, 1965  
*Frederica villiersi* Barta-Calmus, 1965, p. 907, pl. 39, figs. 1-8; Dasycladaceae; near Evreure, Eure, France; Eocene. ING
- FRUTEXITES** Maslov, 1960  
*Frutexites arboriformis* Maslov, 1960, p. 60, pl. 3, figs. 1-3; stromatolite; Siberian platform, U.S.S.R.; Ordovician. ING
- FUELOEPIA** Nagy, 1965  
*\*Fueleopia fimbriata* Nagy, E., 1965, Acta Bot. Acad. Sci. Hung., v. 11, p. 210; algae; Zengovarkony, Mecsek Mountains, Hungary; middle Miocene. ING
- FUSIOIDEA** Yin and Li, 1978  
*Fusioidea septem* Yin and Li, 1978, p. 97, pl. 8, fig. 1; algae incertae sedis; southwest China; Precambrian.

## G

- GESSELLA** Poulsen, 1974  
*Gessella communis* Poulsen, 1974, p. 29-30, pl. 12, fig. 2; pl. 13, figs. 1-2; pl. 14, figs. 1-3; pl. 15, fig. 4; liverwort, Haplomitriaceae; Slagelse no. 1, western Sealand, Denmark; Permian.
- GIGANTOXYLON** Parfenova, 1965  
*Gigantoxylon tabulatus* Parfenova, 1965, p. 28-30, pls. 9-10; gymnospermous wood; Kuzbass; Upper Permian.
- GINKGOPHYTOPSIS** Höeg, 1967  
*Ginkgophytopsis flabellata* (Lindley and Hutton) Höeg, 1967, p. 375, figs. 270-271; leaves, Paleophyllales; Great Britain; Upper Carboniferous. New name for *Noeggerathia flabellata* Lindley and Hutton. ING
- GINKGOPHYTOPSIS** Burago, 1977  
*\*Ginkgophytopsis flabellata* (Zalessky, 1918) Burago, p. 132; see Zalessky, 1918, for description, figures, locality and age. New name for *Ginkgophyton* Zalessky, 1918. ING
- GINKGOXYLON** Andreansky, 1952  
*\*Ginkgoxylon bishariense* Andreansky, G., 1952, Ann. Biol. Univ. Hung., v. 1, p. 20; wood, Ginkgoaceae; Mikofalva, Hungary; upper Miocene. ING
- GLEICHENIORACHIS** Sharma, 1973  
*Gleicheniorachis jurassica* Sharma, 1973, p. 43, pl. 1, figs. 1-4; rachis, Gleicheniaceae; Amarjola, Rajmahal Hills, Bihar, India; Jurassic. ING
- GLEICHOTHECA** Pant and Srivastava, 1977  
*Gleichotheca jabalpurensis* Pant and Srivastava, 1977, p. 157, pl. 3, fig. 7; sporangia; Bansu, South Rewa Gondwana Basin, Madhya Pradesh, India; Jabalpur Stage, Cretaceous or Upper Jurassic.
- GLENOBOTRYDION** Schopf, 1968  
*Glenobotrydion aenigmati* Schopf, 1968, p. 681-683, pl. 81, fig. 5; pl. 83, fig. 9; incertae sedis, "alga," Chlorococcales (?); 40 miles east-northeast of Alice Springs, Northern Territory, Australia; upper Precambrian, Bitter Springs Formation.
- GLOBATOR** Grambast, 1966  
*Globator trochiliscoides* Grambast, 1966, p.

- 1929–1932, 7 figs.; charophyte; Cabo del Termino, Prov. de Tarragone, Spain; Lower Cretaceous.
- GLOBOPHYCUS** Schopf, 1968  
*Globophycus rugosum* Schopf, 1968, p. 683–684, pl. 84, fig. 1; incertae sedis, "alga," Chlorococcales (?); 40 miles east-northeast of Alice Springs, Northern Territory, Australia; upper Precambrian, Bitter Springs Formation.
- GLOEODINIOPSIS** Schopf, 1968  
*Gloeodiniopsis lamellosa* Schopf, 1968, p. 684, pl. 84, fig. 2; incertae sedis, "alga," Chroococcales; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; upper Precambrian, Bitter Springs Formation.
- GLOTTOLEPIS** Bose and Srivastava, 1970  
*Glottolepis rugosa* Bose and Srivastava, 1970, p. 215–217, pl. 1, figs. 1–9; scale-leaves; Nidpur, Sidhi District, M. P., India; Lower Triassic.
- GOKSUELLA** Güvenc, 1966  
*Goksueella maslovii* Güvenc, 1966, p. 848, pl. 32, fig. 13; Dasycladaceae; valley of Dikenli Dere, Alanya, Turkey; Middle Carboniferous. ING
- GONAMOPHYTON** Vologdin and Drosdova, 1964  
*Gonamophyton ovale* Vologdin and Drosdova, 1964, p. 577, pl. 1, figs. 1–6; Cyanophyceae; near Nelkan, Khabarovsk Territory, U.S.S.R.; upper Precambrian. ING
- GONDOMARIA** Teixeira, 1964  
*Gondomaria alethifolia* Teixeira, 1964, C. R. v<sup>e</sup> Congr. Strat. and Geol. Carbon., v. 2, p. 821–822, 7 pls.; near Porto, Portugal; Stephanian. Noticed in Boureau, v. 4, p. 372.
- GONDWANOSTACHYS** Meyen, 1967  
*Gondwanostachys australis* Meyen, 1967, p. 143–144, figs. in Townrow, J., 1955, pl. 1, figs. A, D–F; fertile shoots of *Phyllothea australis*, Gondwanostachyaceae; Hawkesbury River, near Port Jackson, New South Wales, Australia; Permian. New name for *Phyllothea australis* Brongniart, 1828, p. 150.
- GONIOLINOPSIS** Milanovic, 1966  
*Goniolinopsis hexagona* Milanovic, 1966, p. 115–121, pls. 1–3; dasycladacean alga; Velebit Mountain, Yugoslavia; Middle to Upper Permian.
- GONDWANOPHYTON** Maithy, 1972  
*Gondwanophyton indicum* Maithy, 1972, p. 298–302, pls. 1, 2, figs. 1–7; fan-shaped entire leaves, Palaeophyllales; Churuliapit, Raniganj coal field, West Bengal, India; Raniganj Stage.
- GOPADIA** Srivastava, 1974  
*Gopadia coriacea* Srivastava, 1974, p. 44–45, pl. 1, figs. 1–5; fossil leaf; Nidpur, Sidhi District, M. P., India; Lower (?) and Middle Triassic.
- GORNOSTACHIA** Shapovalova, 1974  
*Gornostachia longa* Shapovalova, 1974, p. 104–107, pl. 23, figs. 1–5; stromatolite; Sette-Daban Mountains, Yakutskaya, U.S.S.R.; Riphean.
- GRAMBASTIA** Brousmiche, 1978  
*Grambastia goldenbergii* (Andrae) Brousmiche, 1978, p. 164, pls. 1–4; sphenopterid frond; Sarre-Lorraine coal field, France; Carboniferous. New name for *Sphenopteris goldenbergii* Andrae, 1865, p. 43, pl. 14.
- GRAMBASTIELLA** Massieux and Tambareau, 1978  
*Grambastiella acuta* Massieux and Tambareau, 1978, p. 143–144, pl. 1, figs. 1–6; alga, Characeae; central Pyrenees; Thanetian.
- GRAMINOCARPON** Chitaley and Sheikh, 1971  
*Graminocarpum mohgaonense* Chitaley and Sheikh, 1971, p. 141, figs. 1–7, 9; monocotyledonous albuminous grain; Mohgaon Kalan, India; Deccan Intertrappean cherts. ING
- GRANDIPHYCUS** Nautiyal, 1978  
*Grandiphycus satpuliensis* Nautiyal, 1978, p. 222–226, figs. 1, 2; fossil alga, Nostacales; Satpuli, Garhwal Himalaya, India; Precambrian.
- GUAREOXYLON** Lemoigne, 1978  
*Guareoxylon cedratoides* Lemoigne, 1978, p. 130–131, pl. 9, figs. 11–13; fossil wood; Welkite region, Ethiopia; Miocene.
- GUIZHOUNEMA** Mu Xinan, 1977  
*Guizhouinema endosporicum* Mu Xinan, 1977, p. 153, pl. 1, figs. 1–7; pl. 2, fig. 9 (a); fossil fungi; Anshun of Guizhou, China; Upper Permian.
- GYMNOVULITES** Shukla, 1948  
*Gymnovulites* (no species given) Shukla, 1948, p. 259, pl. 18, fig. 14; seed, Cycadinae; Mohgaon-kalan, Chhindwara District, India; Tertiary. ING

H

- HALOSPHEROPSIS** Mädlar, 1963  
*Halospheropsis liassica* Mädlar, 1963, p. 313, pl. 15, figs. 2–9; alga, Chlorophyceae; Ziegeleigrube Osterfeld bei Goslar, Germany; Lias.



- HALYTHRIX** Schopf, 1968  
*Halythrix nodosa* Schopf, 1968, p. 678, pl. 77, fig. 7; incertae sedis, "alga," Oscillatoriaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; upper Precambrian, Bitter Springs Formation.
- HAMATOPHYTON** 1974  
*Hamatophyton verticillatum*, 1974, p. 38, pl. 19, figs. 3-5; pl. 20, figs. 1-4; Hyeniales; China; Paleozoic. In Paleozoic plants of China: Nanking Inst. Geol. and Palaeont., 1974 (in Chinese).
- HAMULUSELLA** Elliott, 1978  
*Hamulusella sedalanensis* Elliott, 1978, p. 687-691, pl. 73; dasycladacean alga; northeastern Iraq and western Iran; Paleocene.
- HARRISOCARPON** Chitaley and Nambudiri, 1973  
*Harrisocarpon sahnii* Chitaley and Nambudiri, 1973, p. 36-41, pl. 1; petrified dicotyledonous fruit; Mohgaon-kalan, Chhindwara District, India; Deccan Intertrappean beds, Eocene.
- HASTYSTROBUS** van Konijnenburg-van Ciltert, 1971  
*\*Hastystrobus muirii* J. H. A. van Konijnenburg-van Ciltert, 1971, Acta Bot. Neerl., v. 20, p. 30; male fructification, Cycales; Hasty Bank, Yorkshire, England; Jurassic, lower Deltaic. ING
- HELICONEMA** Schopf, 1968  
*Heliconema australiensis* Schopf, 1968, p. 671-672, pl. 81, figs. 2, 3; "alga," Oscillatoriaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; upper Precambrian, Bitter Springs Formation. Species name corrected to *H. australiense* in Schopf and Blacic, 1971, p. 956.
- HELIOPORELLA** Sokač and Nikler, 1973  
*Helioporella cylindrica* Sokač and Nikler, 1973, p. 9-11, pl. 1, figs. 1-8, calcareous algae, Dasycladaceae; Yugoslavia; Barrémian and Aptian. ING
- HELMINTHOSORITES** Chitaley and Sheikh, 1971  
*Helminthosorites mohgaonense* Chitaley and Sheikh, 1971, p. 141, fig. 8; fungi; Mohgaon-kalan, India; Deccan Intertrappean cherts. ING
- HERBULA** Stepanov, 1967  
*Herbula marina* Stepanov, 1967. Noticed in Stepanov, S. A., 1975, p. 75, pl. 29, fig. 11; Primofilices, incertae sedis; Devonian.
- HIDASIA** Nagy, 1965  
*\*Hidasia dwigana* E. Nagy, 1965, Acta Bot. Acad. Sci. Hungary, v. 11, p. 212; algae; Hidas, Mecsek Mountains, Hungary; middle Miocene. ING
- HOLOPTELEOXYLON** Awasthi, 1975  
*Holopteleoxylon indicum* Awasthi, 1975, p. 23-24, pl. 2, figs. 9, 11-13; fossil wood; Murattandichavidi near Pondicherry, India; Cuddalore series, Miocene and Pliocene.
- HOMALIOXYLON** Prakash and Tripathi, 1972  
*Homalioxylon assamicum* Prakash and Tripathi, 1972, p. 305-307, pl. 1, figs. 1, 3, 5, 6; wood, Flacourtiaceae; Rath Tila, near the town of Hailakandi, Cachar District, Assam, India; upper Miocene.
- HONANELLA** Vologdin, 1958  
*Honanella densa* Vologdin, 1958, p. 27-28, pl. 5, figs. 1-2; alga; Honan; Cambrian.
- HONSELERIA** Mustafa, 1978  
*Honseleria verticillata* Mustafa, 1973, p. 39-40, pl. 5, figs. 3-4; xylem-cylinder; Sauerland, Germany; Givetian.
- HYDROCORYNITES** Maslov, 1960  
*Hydrocorynites stylostromaticus* Maslov, 1960, p. 63, text fig. 7; alga; Siberian platform, U.S.S.R.; Ordovician. ING
- HYSTERIOPSIS** Geyler, 1887  
*\*Hysteriopsis subopegraphoides* H. T. Geyler, 1887, Vega-Exped. Vetensk. Iakttagelser, v. 4, p. 487; fungi; Labuan, Borneo, Indonesia; Tertiary. ING
- I
- IEVLEVIA** Samylin, 1976  
*Ievlevia dorofeevii* Samylin, 1976, p. 93, pl. 48, figs. 11b, 12, 13b; seeds, Vitaceae; Omsukchan, Magadan District, U.S.S.R.; Cretaceous.
- IKELLA** Shuyskiy, 1970  
*\*Ikella vermicularis* Shuyskiy, 1970, Akad. Nauk U.S.S.R., Uralskiy Nauchny Tsentr. Inst. Geol. i Geophy. im. A. N. Zarbitskogo; Serga River, U.S.S.R.; Lower Devonian.
- ILEMORPHYTON** Stepanov, 1972  
*\*Ilemorphyton asiaticum* S. A. Stepanov, 1972, Novye Vidy Drevnih Rast. Bespozvonocnyh, U.S.S.R., p. 299; Psilopsida; southern Minusinsk Basin, Altai-Sayansky District, U.S.S.R.; Devonian, Givetian. ING
- IMPERIELLA** Elliott, 1975  
*Imperiella iranica* Elliott, 1975, p. 452-454, pl. 1, figs. 1-3; green algae, Dasycladaceae; Emerat, Alborz, Iran; Upper Permian.
- INDOCARPUS** Surange and Chandra, 1972  
*Indocarpus elongatus* Surange and Chandra, 1972, p. 2-3, pl. 2, fig. 5; pl. 4, fig.



- 14; one-winged seeds, Glossopteridae; Handappa, Orissa, India; Upper Permian.
- INZERIA** Bertrand-Sarfati and Caby, 1976  
*Inzeria groenlandica* Bertrand-Sarfati and Caby, 1976, p. 27, figs. 7b, d, 16, 17, 18; stromatolite; Eleonore Bay, Greenland; Precambrian.
- IRTYSHENIA** Dorofeev, 1972  
*Irtyshenia tenuicostata* (Dorofeev) Dorofeev, 1972, p. 1049-50, pl. 1, figs. 1-3; pl. 2, fig. 1; seed, Nymphaeaceae; Lezanki, Irtyse, Omskaya District, U.S.S.R.; upper Miocene. New name for *Euryale tenuicostata* Dorofeev, 1959, v. 2, p. 30, pl. 9, figs. 32, 33.
- ISCHNOPHYTON** Delevoryas and Hope, 1976  
*Ischnophyton iconicum* Delevoryas and Hope, 1976, p. 95-99, pl. 1; pl. 2, figs. 1-5; cycadeoidalean stem with leaves, Williamsoniaceae; Deep River basin, central North Carolina, U.S.A.; Pekin Formation, Upper Triassic.
- IZHELLA** Antropov, 1955  
*Izhella nubiformis* I. A. Antropov, 1955, Ucen. Zap. Kazansk. Gosud. Univ. Ul'janova-Lenin, v. 115, no. 8, p. 47; Cyanophyceae; Udmurt, U.S.S.R.; Upper Devonian. ING
- JACUTIELLA** Korde, 1964  
*Jacutiella aciculata* (Korde) Korde, 1964, p. 162, figured in Korde, 1957, p. 68, fig. 1; siphonal alga.
- JAMBADOSTROBUS** Chandra and Surange, 1977  
*Jambadostrobos pretiosus* Chandra and Surange, 1977, p. 128-137, pl. 1, figs. 1-4; pl. 2, figs. 7-12; pl. 3, fig. 16; pl. 5, fig. 24; female reproductive organ; Selected Jambad colliery, Raniganj coal field, West Bengal, India; Raniganj Stage, Permian.
- JANSAELLA** Mamet and Roux, 1975  
*Jansaella ridingii* Mamet and Roux, 1975, p. 1481, pl. 1, figs. 1-6; incertae alga; Mount Simla, Alberta, Canada; Upper Devonian. ING
- JATULIANA** Korde, 1965  
*Jatuliana furcata* Korde, 1965, p. 431, pl. 1, fig. 4; Cyanophyceae-Rivulariaceae; Karelia, U.S.S.R.; Precambrian. ING
- JOHNSONIA** Korde, 1965  
*Johnsonia spinosa* Korde, 1965, p. 275, pl. 54, figs. 3, 4, 7; Chlorophyceae-Dasycladaceae; Nakhichevanskaya, U.S.S.R.; Upper Permian. ING
- JULIPHYTON** Stepanov, 1975  
*Juliphyton glazkina* Stepanov, 1975, p. 78, pl. 1, figs. 3-8; pl. 2, figs. 3, 6; incertae sedis; outskirts of Kuznetsk Basin, U.S.S.R.; Devonian.
- JURELLA** Kyansep-Romashinka, 1974  
*Jurella abshirica* Kyansep-Romashinka, 1974, p. 28-29, pl. 2, figs. 6a, b; charophytic algae, Raskyellaceae; right bank of Abshir-Say River, southeastern Fergana, U.S.S.R.; Middle Jurassic.
- K
- KAMAENELLA** Mamet and Roux, 1974  
*Kamaenella denbighi* Mamet and Roux, 1974, p. 138, pl. 7, fig. 14; alga, Palaeoberesellaceae; Chollerford, Northumberland, England; Carboniferous.
- KAPLUNELLA** Senkovic, 1972  
*Kaplunella lissa* M. A. Senkovic, 1972, Novye Vidy Drevnih Rast. Bespoz. U.S.S.R., p. 300; Psilopsida; Kazakhstan, U.S.S.R.; Devonian, Eifelian. ING
- KARAGANDELLA** Juriana, 1965  
*Karagandella kabanovii* Juriana, 1965, p. 119-122, pl. 10, figs. 1-5; fossil fern, Protopteridiales(?); Kazakhstan, U.S.S.R.; Middle Devonian. ING
- KARATOPHYLLUM** Gomez, 1972  
*Karatophyllum bromelioides* L. D. Gomez, 1972, Revista Biol. Trop., v. 20, p. 223; Bromeliaceae; San Ramon Province of Alguela, Costa Rica; middle Tertiary. ING
- KARELIANA** Korde, 1965  
*Kareliana zonata* Korde, 1965, p. 430, pl. 1, figs. 1, 2; Cyanophyta; Karelia, U.S.S.R.; Precambrian. ING
- KARIBACARPON** Lacey, 1976  
*Karibacarpus problematicum* Lacey, 1976, p. 8, pl. 1, figs. 1-6; pl. 2, fig. 5; cupulate fructification; Sinamwenda, Lake Kariba, Rhodesia; Moltano.
- KARPATIA** Maslov, 1962  
*Karpathia sphaerocellulosa* Maslov, 1962, p. 122, pl. 23, fig. 2; Rhodophyceae-Peyssonelliaceae; Sambor River, Carpathian Mountains, U.S.S.R.; Paleocene. ING
- KASAIYA** Bertrand-Sarfati, 1972  
*Kasaiya convexa* Bertrand-Sarfati, 1972, p. 129-131, pl. 16, fig. 4; stromatolite; Kanshi, Bushimay, Zaire; Precambrian.
- KATAVELLA** Tchuvashev, 1965  
*Katavella orlovkaensis* Tchuvashev, 1965, p. 83, pl. 24, figs. 1-3; Rhodophyceae-Solenoporaceae; Katav River, southern Ural Mountains, U.S.S.R.; Upper Devonian. ING
- KEMEROWSKIA** Chachlov, 1939  
*Kemerowskia originalis* Chachlov, 1939, Trudy Tomsk. Gosud. Univ. Kiybys. Ser.

- Geol., v. 96, p. 13; stem, incertae sedis; Staraja Balahonka, Kemerovo District, Kuznetsk Basin, U.S.S.R.; Carboniferous and Permian. ING
- KEMIA** Ananiev, 1948
- Kemia rostrata* Ananiev, A. R., 1948, Trudy Tomsk. Gosud Univ. Kujbys. Ser. Geol., v. 99, p. 35; fruits, Alismataceae; Kem River, tributary of Yenisey River, U.S.S.R.; Upper Cretaceous. ING
- KENDOSTROBUS** Surange and Chandra, 1972
- Kendostrobos cylindricus* Surange and Chandra, 1972, p. 255-256, pl. 1, figs. 1, 2; cone, male fructification, probably Glossopteridales; Raniganj coal field, Bengal, India; Upper Permian.
- KIRJAMKENIA** Prinada, 1970
- \**Kirjamkenia lobata* Prinada, 1970, Iskap. Fl. Korvanc. Svity, p. 59; leaf, Pteridospermae; left bank of Lower Tunguska River, Siberia, U.S.S.R.; Lower Triassic. ING
- KLIMETIA** Makarikhin, 1978
- Klimetia marginata* Makarikhin, 1978, p. 81-82, pl. 1, figs. 3, 5, 6; stromatolite; Karelia, U.S.S.R.; Yatulian.
- KOCHANSKYELLA** Milanović, 1974
- Kochanskyella tulipa* Milanović, 1974, p. 127-132, 5 pls.; algae, Dasycladaceae; northeastern slopes of Mount Velebit, near the villages of Brizik, Okic, Medak, and Meduvode, Croatia, Yugoslavia; Middle to Upper Permian.
- KONINCKOPOROIDES** Rich, 1974
- Koninckoporoides monteaglensis* Rich, 1974, p. 367, pl. 2, figs. 10, 12, 13, 18; pl. 5, figs. 1, 2; algae, Chlorophyceae-Dasycladaceae; Grundy County, Tennessee, U.S.A.; Upper Mississippian. ING
- KOOMPASSIOXYLON** Kramer, 1974
- Koompassioxylon elegans* Kramer, 1974, p. 117-124, pl. 27, figs. 94, 95, 97-101; pl. 28, fig. 105; fossil wood, Leguminosae; British Borneo; Tertiary.
- KORDEPHYTON** Radugin and Stepanova, 1964
- \**Kordephyton crinitum* (Korde) Radugin, K. V., and Stepanova, M. V., 1964, Mater. Geol. Polezn. Iskop Zapadn. Sibiri, p. 64; thallus, Rhodophyta-Cambrinaceae; Elanskoe on the Lena River, Yakutia, U.S.S.R.; Middle Cambrian. ING
- KORILOPHYTON** Voronova, 1976
- Korilophyton inopinatum* Voronova, 1976, p. 83-84, pl. 17, figs. 4-6; algae incertae sedis; Siberian platform, U.S.S.R.; Cambrian.
- KORVUNTSCHIANA** Prynada, 1970
- \**Korvuntschiana dentata* Prynada, 1970, Flore fossile de la srie de Korvuntschansk, p. 49-51, pl. 3, fig. 1; pinnules, Pecopteridae; Tougouska [Tunguska?] Basin, Siberia; Lower Triassic. Noticed in Boureau and Doubinger, 1975, p. 258.
- KOTUIKANIA** Komar, 1964
- \**Kotuikania torulosa* Komar, 1964, noted in Walter, Krylov, and Preiss, 1979, p. 294; north Siberian platform, U.S.S.R.; Riphean.
- KRASSAVINELLA** Feist-Castel, 1977
- Krassavinella lagenalis* (Straub) Feist-Castel, 1977, p. 771-775, 1 pl.; charophyte; between Ehingen and Ulm on the Donau River, Germany; Oligocene. New name for *Chara lagenalis* Straub, 1952.
- KUGARTENIA** Sixtel, 1953
- \**Kugartenia irregularis* Sixtel, 1953, sterile fronds; Ferghana, U.S.S.R.; Lower Jurassic. Noticed in Boureau and Doubinger, 1975, p. 259, fig. 207.
- KUSJAELLA** Chuvashov, 1973
- Kusjaella fruticosa* Chuvashov, 1973, p. 37-38, pl. 4, figs. 1-5; pl. 5, figs. 5, 10; algae, Sycidiaceae; Koyva River near settlement of Kus'e-Aleksandrovsk, western slope of the central Urals, U.S.S.R.
- KUSSOIDEELLA** Semikhatov, 1978
- Kussoidella limata* Semikhatov, 1978, p. 138-140, pl. 22, figs. 1-4; stromatolite; Canadian Shield; Apebian.
- KUZBASSOXYLON** Parfenova, 1963
- \**Kuzbassoxylon* Parfenova, M. D., 1963, Izv. Tomsk. Politehn. Inst., v. 121, p. 90; incertae sedis. ING
- L
- LAGENUMBELLA** Mamet, 1970
- Lagenumbella lageniformis* (Reitlinger) Mamet, 1970, v. 7, no. 4, p. 1169, pl. 1, figs. 10-12; Charophyceae-Umbellaceae; Armenia, U.S.S.R.; Upper Devonian and Lower Carboniferous. New name for *Umbella lageniformis* Reitlinger, 1966, p. 218, pl. 1, figs. 6-11.
- LARICIOXYLON** Greguss, 1969
- Laricioxylon nógrádense* Greguss, 1969, p. 97, pl. 85, figs. 1-6; wood, Pinaceae; Nógradezakai, Hungary; Sarmatian.
- LATISPHAERA** Licari, 1978
- Latisphaera wrightii* Licari, 1978, p. 784-785, pl. 2, figs. 8-9; alga, Chlorococcales; eastern California, U.S.A.; upper pre-Phanerozoic.
- LEIOPLANKTONA** Kar and Saxena, 1974
- Leio planktona madhensis* Kar and Saxena,



- 1974, p. 3-4, pl. 1, figs. 1-4; alga, microplankton; Kutch, India; Paleocene.
- LEMNOSPERMUM** Nikitin, 1976  
*Lemnosperrum pistiforme* Nikitin, 1976, p. 174-175, pl. 66, figs. 1-3; fossil seed; Mamontova Gora, U.S.S.R.; Miocene.
- LEPEOPHYLLUM** Zaleski, 1933  
*Lepeophyllum gemmatum* (Geinitz) Zaleski, 1933, p. 1249, fig. 8; leaves, Cordaitales; Kuznetsk Basin, western Siberia, U.S.S.R.; Permian. ING
- LEPIDOLITES** Ulrich, 1879  
*Lepidolites dickhauti* Ulrich, 1879, p. 21-22, pl. 7, fig. 17; cyclocrinoid alga; Covington, Kentucky, U.S.A.; Upper Ordovician.
- LEPTOSPERMATOXYLON** Trivedi and Verma, 1973  
*Leptospermatoxylon indicum* Trivedi and Verma, 1973, p. 151-156, pl. 1, figs. 1-6; petrified fossil axis, Myrtaceae; Mohgaon-kalan, east of Chhindwara, M. P., India; Tertiary.
- LIBYARIA** Lejal-Nicol, 1975  
*Libyaria devoniense* Lejal-Nicol, 1975, p. 87-88, pl. 9, figs. 42-46; impressions of axes, Lepidosigillariaceae; Mourzouk Basin, Libya; Lower Devonian.
- LIDASIMOPHYTON** Senkevitch, 1961  
*Lidasimophyton akkermensis* Senkevitch, 1961, p. 156, pl. 25, figs. 2-5; pl. 26, figs. 1-5; stems, Lycopodiaceae; Lake Balkhash area, U.S.S.R.; Middle Devonian.
- LIKANELLA** Milanović, 1966  
*Likanella spinosa* Milanović, 1966, p. 9-13, pl. 1-4; dasycladacean alga; Velebit Mountains, Yugoslavia; Permian.
- LINYIECHARA** Xinlun, 1978  
*Linyiechara clara* Xinlun, 1978, p. 23-24, pl. 4, figs. 2-6; charophyte; Bohai, China; Oligocene. (See in Bibliography: China Ministry of Petroleum and Chemistry Industry.)
- LITHOCHRYSIDITES** Maslov, 1964  
*Lithochrysidites calcarea* Maslov and Rengarten, 1964, p. 579-581, pl. 2; algae, Chrysophyta(?); Kiev, U.S.S.R.
- LITIA** Shapovalova, 1974  
*Litia difformia* Shapovalova, 1974, p. 86-89, pl. 10, figs. 1-5; pl. 11, figs. 1-4; stromatolite; central Sette-Daban Mountains, Yakutsk, U.S.S.R.; middle Riphean.
- LITSEAPHYLLUM** Wolfe, 1977  
*Litseaphyllum carbonensis* Wolfe, 1977, p. 68, pl. 28, figs. 6, 9; fossil leaf; Gulf of Alaska; Paleogene.
- LIUPINGIA** Yin and Li, 1978  
*Liupingia fungiformis* Yin and Li, 1978, p. 96, pl. 8, fig. 4; algae incertae sedis; southwest China; Precambrian.
- LONCHOPTERIDIUM** Gothan, 1910  
*\*Lonchopteridium alethopteroides* Gothan, 1910, in Potoni, Abb. u. Besch. foss. Pflanz., v. 7, no. 133, p. 1-2, fig. 1; bipinnate frond, Alethopteridae; Europe; Westphalian B-C-D.
- LOPINOPTERIS** Sze, 1958  
*\*Lopinopteris intercalata* Sze, 1958, Acta Palaeontol. Sinica, v. 6, no. 4, p. 383-384, pl. 2, figs. 1-4; pl. 3, figs. 4-6; Alethopteridae; northeast Kiangsi, China; Westphalian. Noticed in Boureau and Doubringer, 1975, p. 375.
- LOWVILLIA** Guilbault and Mamet, 1976  
*Louvillia grandis* Guilbault and Mamet, 1976, p. 647-650, pl. 6, fig. 1; alga; Ouareau River, Canada; Ordovician.
- LOXSOMOPTERIS** Skog, 1976  
*Loxsomopteris anasilla* Skog, 1976, p. 8-14, figs. 2-5; fossil fern rhizome; Paint Branch, College Park, Maryland, U.S.A.; Lower Cretaceous.
- LUCERNELLA** Grambast and Lorch, 1968  
*Lucernella ampullacea* Grambast and Lorch, 1968, p. 48-49, pl. 1, fig. 1a-d; charophyte, Clavatoraceae; Toumatt-Jessine, southern Lebanon; Cretaceous.
- LUMINITZEROLYXON** Kramer, 1974  
*Luminitzeroloxylon palaeococcineum* Kramer, 1974, p. 16-24, figs. 30a-c, 31; pl. 3, figs. 205, 206, 208-210, 213-215; wood, Combretaceae; Southeast Asia; Tertiary.
- LYGINOPTIS** Galtier, 1970  
*Lyginopitys puechcapelensis* Galtier, 1970, p. 149-155, figs. 58, 59; pteridospermales incertae sedis; St. Nazaire de Laderez, France; lower Viséan.
- LYNGBYITES** Makhaev, 1937  
*\*Lyngbyites elegans* Makhaev, V. N., 1937, Comp. Rend. (Dokl.) Akad. Sci. U.S.S.R., v. 15, p. 484; Cyanophyceae; Ishimbay, Bashkir, U.S.S.R.; Upper Carboniferous. ING
- M
- MACHAERITES** Andreansky, 1954  
*\*Machaerites* Andreansky, G., 1954, Oesnoventan XV; fruit, Leguminosae; Obuda, Hungary; lower Oligocene. ING
- MACRONUBECULARITES** Maslov, 1960  
*Macronubecularites subradiatus granulosus* Maslov, 1960, p. 87, pl. 30, fig. 1; alga; Siberian platform, U.S.S.R.; Ordovician.
- MACULOSPHERA** Licari, 1978  
*Maculosphaera kingstonensis* Licari, 1978,

- p. 783-784, pl. 11, fig. 8; alga, Chlorococcales; eastern California, U.S.A.; upper pre-Phanerozoic.
- MADHUCOXYLON** Prakash and Tripathi, 1975  
*Madhucoxylon cacharensense* Prakash and Tripathi, 1975, p. 142-144, pl. 2, figs. 7, 9; fossil wood; Sultanicherra, Assam, India; Tertiary.
- MAGNOLIACEOXYLON** Wheeler, Scott, and Barghoorn, 1977  
*Magnoliaceoxylon wetmorei* Wheeler, Scott, and Barghoorn, 1977, p. 291-294, figs. 18-20; fossil wood; Gallatin Fossil Forest, Yellowstone National Park, Montana, U.S.A.; Eocene.
- MAJSASSIA** Suchov, 1964  
*\*Majsassia elliptica* Suchov, 1964, p. 176, pl. 31, figs. 1-3; gymnospermous seed; central Siberia, U.S.S.R.; Permian. Noticed in Sukhov, 1969.
- MANGIFEROXYLON** Awasthi, 1966  
*Mangiferoxylon scleroticum* Awasthi, 1966, p. 131-135, pls. 1-2, figs. 1-11; fossil wood, Anacardiaceae; 8-10 km west-northwest of Pondicherry, South Arcot District, Madras, India; Tertiary.
- MAMETELLA** Brenckle, 1977  
*Mametella chautauquae* Brenckle, 1977, p. 250-255, 1 pl.; alga; Chautauqua, Jersey County, Illinois, U.S.A.; Mississippian, Fern Glen Formation.
- MAMMEOXYLON** Lemoigne, 1978  
*Mammeoxylon lanneoides* Lemoigne, 1978, p. 119-120, pl. 6, figs. 4-7; fossil wood; Welkite region, Ethiopia; Miocene.
- MANICA** Watson, 1974  
*Manica (Frenelopsis) parceramosa* (Fontaine) Watson, 1974, p. 428; cupressaceous shoots (conifer).
- MANICOSIPHONIA** Cao and Zhao, 1978  
*Manicosiphonia bambusa* Cao and Zhao, 1978, p. 32-33, pl. 1, figs. 1, 7; pl. 3, fig. 4; fossil alga; southwest China; Sinian.
- MANILKAROXYLON** Hofmann, 1948  
*Manilkaroxylon diluviale* Hofmann, 1948, *Palaeobiologica*, v. 8, p. 280, not illus.; wood, Sapotaceae; Sta. Paula, Equador; Quaternary. ING
- MANILKAROXYLON** Grambast-Fessard, 1968  
*Manilkaroxylon crystallophora* Grambast-Fessard, 1968, p. 58-65, pls. 1 and 3; wood, Sapotaceae; Rayan near Castellane, Basses-Alpes, France; upper Miocene. ING
- MARANHITES** Brito, 1965  
*\*Maranhites brasiliensis* Brito, I. M., 1965, Univ. Bahia, Esc. Geol. Publ. Avulsa, v. 2, p. 1; algae incertae sedis; Maranhão, Brazil; Devonian. ING
- MARCHAJELLA** Tolstych, 1968  
*\*Marchajella kaschireiwi* Tolstych, A. N., 1968, *Novyte Vidy Drevnch. Rast. Bespozv. U.S.S.R.*, v. 2, no. 1, p. 78; leaf, Cordaitales; Olenek, Mazha River basin, U.S.S.R.; Lower Triassic. ING
- MARGINOPTERIS** Gothan, 1941  
*\*Marginopteris bipartita* Gothan, 1941, *Abh. Reichst. f. Bodenforsch. n. f.* 196, p. 1-54; Filicophyta, incertae sedis; Germany; Westphalian A.
- MARGINOPTERIS** Salmenova, 1978  
*Marginopteris kasachstaica* Salmenova, 1978, p. 539, pl. 12, illus. 1-3; tripinnate frond; northern cis-Balkhash region, U.S.S.R.; Lower Permian.
- MARINELLA** Pfender, 1939  
*Marinella lugeoni* Pfender, 1939, p. 215, pl. 2, figs. 1-2; red algae; Spain; Upper Jurassic and lowermost Cretaceous; Lias.
- MARWARIA** Sukh-Dev and Bose, 1972  
*Marwaria latifolia* (Feistmantel) Sukh-Dev and Bose, 1972, p. 65-66, pl. 3, figs. 19-24, new name for *Araucarites (Araucaria) latifolius* Feistmantel, 1882, p. 45, pl. 2, fig. 6; coniferous leafy twigs; Bansa, South Rewa Basin, Madha Pradesh, India; Lower Cretaceous.
- MASLOVIPORELLA** Kulik, 1973  
*Masloviporella calixioidea* Kulik, 1973, p. 40, pl. 3, figs. 1-4; Dasycladaceae; Carboniferous.
- MATANOMADHIA** Kar and Saxena, 1974  
*Matanomadhia indica* Kar and Saxena, 1974, p. 5, pl. 1, figs. 11a-11b; alga, microplankton; Kutch, India; Matanomadh Formation, Paleocene.
- MATONIOPTERIS** Snigirevskaya, 1977  
*Matoniopteris sibirica* Snigirevskaya, 1977, *Bot. Zhurn.*, v. 62, no. 6, p. 858-862, pl. 1, figs. 1-8; pl. 2, figs. 1-8; rhizome, Matoniaceae; eastern Siberia, U.S.S.R.; Jurassic.
- MATTEUCCIA** Fotjanova, 1967  
*Matteuccia septemtrionalis* Fotjanova, 1967, p. 118, fig. 1, illus. 1, 3; fig. 2, illus. 1; Aspidiaceae; Mamontova Gora, U.S.S.R. Noticed in Iljinskaja, I. A., Pnevna, G. P., and Schvareva, N. Ya., 1972, pt. 2, The Mamontove Gora flora through leaf impressions. *Akad. Nauk U.S.S.R. Sibirskoe otdelenie. Inst. geol. i geof. Trudy. vyp. 233*, p. 90.
- MEGALOPTERIS** Andrews, 1875  
*Megalopteris dawsoni* (Hartt) Andrews, E. B., 1875, p. 415, new name for



- Neuropteris dawsoni* Hartt; fern or pteridosperm foliage, Megalopteridaceae; Rushville, Ohio, U.S.A.; Pennsylvanian. ING
- MELANORRHOEOLYXON** Prakash and Tripathi, 1974
- Melanorrhoeolylon cacharensis* Prakash and Tripathi, 1974, p. 82-85, pl. 2, figs. 1-5; fossil wood, Sultanicherra, near Hailakandi, District Cachar, Assam, India; Tertiary.
- MELIACEOLYXON** Greguss, 1969
- Meliaceolylon matrensis* Greguss, 1969, p. 89-90, pl. 85, figs. 1-9; wood, Meliaceae; Matranovak, Hungary; Miocene. ING
- MELIOLINITES** Selkirk, 1975
- Meliolinites spinksi* (Dilcher) Selkirk, 1975, p. 70-71, pl. 7, figs. 1-6; fossil fungal colonies; western Tennessee, U.S.A.; Eocene. New name for *Meliola spinksi* Dilcher, 1965, p. 8, pl. 2, figs. 9-11.
- MERIANOPTERIS** Heer, 1876
- Merianopteris angusta* Heer, 1876, p. 88, pl. 24, figs. 7-12; pl. 37, figs. 7, 8; fronds and pinnules, Pecopteridae; Jura, Switzerland; Keuper. ING
- METASEQUOIOXYLON** Greguss, 1967
- Metasequoioxylon hungaricum* Greguss, 1967, p. 69, pl. 55, figs. 3-4, 8-12; wood, Taxodiaceae; Karancskeziz, Hungary; Helvetian.
- MEXIGLOSSA** Delevoryas and Person, 1975
- Mexiglossa varia* Delevoryas and Person, 1975, p. 18-19, pls. 1, 2, figs. 1-6; glossopterid leaves, exact affinities unknown; Oaxaco, Mexico; Jurassic.
- MICROCALAMOIDES** Bonet, 1956
- Microcalamoides diversus* Bonet, 1956, p. 47-49, pls. 28-30; calcitic remains of cylindrical shape, incertae sedis; Cañon de Lajitas, Mexico; lower Barremian to Albian.
- MICROZAMIA** Reuss, 1846
- Microzamia* sp. unk. Reuss, A. E., 1846, Verstein. Boehm. Kreideformat, v. 2, p. unk.; cone, Cycadophyta; Bohemia, Czechoslovakia; Cretaceous. ING
- MILLARIA** Pflug, 1966
- Millaria implexa* Pflug, 1966, p. 66-67, pl. 28, figs. 6-18, 20-44, 48-63; pl. 29, figs. 1-28; Cyanophyta(?); Clark Fork Quadrangle, Idaho-Montana, U.S.A.; Precambrian.
- MILLETIAPHYLLUM** Louvet and Mouton, 1970
- Milletiaphyllum obtusum* Louvet and Mouton, 1970, p. 90-91, pl. 4, fig. 2, fossil leaf; Coquin, Libya; Oligocene.
- MILLETTIOXYLON** Awasthi, 1967
- Millettioxylon indicum* Awasthi, 1967, p. 180, figs. 1-3; fossil wood, Leguminosae; about 8-10 km south of Pondicherry, India; Tertiary.
- MILLETIOXYLON** Lemoigne, 1978
- Millettioxylon embergeri* Lemoigne, 1978, p. 108-109, pl. 2, figs. 12, 13; fossil wood, Papilionaceae; Welkite, Ethiopia; Tertiary.
- MINJARIA** Korolyuk, 1960
- Minjaria calceolata* Korolyuk, 1960, stromatolite; eastern Siberia, U.S.S.R.; upper Riphean.
- MISTASSINIA** Hofmann, 1978
- Mistassinia wabassinon* Hofmann, 1978, p. 573-579, figs. 2-10; stromatolite; north-west shore of Lake Mistassini, Quebec, Canada; lower part of Albanel Formation, Mistassini Group, Precambrian.
- MNEME** Eyde, 1972
- Mneme menzelii* (Reid) Eyde, 1972, p. 114, seeds of unknown affinity; Senftenberg, Austria; Miocene. New name for *Diclidocarya menzelii* Reid, 1927.
- MOHRIOPSIS** Appert, 1973
- Mohriopsis plastica* Appert, 1973, p. 15, pls. 9-14; Schizaeaceae; Ambatomainity, Bereich, Madagascar; Upper Jurassic.
- MONGOLICHARA** Kyansep-Romashkina, 1975
- Mongolichara deplanata* Kyansep-Romashkina, 1975, p. 200-201, pl. 5, fig. 2; alga, charophyta; Mongolia; Upper Jurassic or Cretaceous.
- MONGOLICHARA** Kyansep-Romashkina, 1975
- Mongolichara gobica* (Karczewska and Ziembinska-Tworzydło) Karczewska and Kyansep-Romashkina, 1979, p. 423-424, emending the type species of Kyansep-Romashkina, 1975.
- MONTANELLA** Pflug, 1965
- Montanella beltensis* Pflug, 1965, p. 16, figs. 1-3; algae incertae sedis; Clark Fork Quadrangle, Idaho-Montana, U.S.A.; Precambrian. ING
- MONTENEGRELLA** Sokač and Nikler, 1973
- Montenegrella tuberifera* Sokač and Nikler, 1973, p. 11-13, pl. 2, figs. 1-5; algae, Dasycladaceae; near Nikšić Crna Gora, Yugoslavia; Lower Cretaceous. ING
- MOOIA** Lacey, van Dijk, and Gordon-Gray, 1975
- Mooia lidgettonioides* Lacey, van Dijk, and Gordon-Gray, 1975, p. 389-392, figs. on p. 391; a cupulate fructification, incertae sedis; Mooi River district, Natal, South Africa; Upper Permian.

- MOSELLOPHYTON** Schaarschmidt, 1974  
*Mosellophyton hefteri* Schaarschmidt, 1974, p. 192-200, pl. 28, figs. 1a-2; bulbous stems and branches, ?psilophyte; Grosser Steinbruch in Alkenen Bachtal bei Alken and Mosel, western Germany.
- MOSTOTCHKIA** Chachlov, 1939  
 \**Mostotchkia longifolia* Chachlov, V. A., 1939, Trudy Tomsk. Gosud. Univ. Kiybyseva, Ser. Geol., v. 96, p. 12; leaf, incertae sedis; Staraja Balahonka, Kemerovo District, Kuznetsk Basin, U.S.S.R.; Carboniferous and Permian. ING
- MULTISIPHONIA** Tsao and Liang, 1974  
*Multisiphonia nanshanensis* Tsao and Liang, 1974, p. 9-10, pl. 2, fig. 4; alga, Corallinaceae; China; Sinian.
- MUSATEA** Galtier, 1968  
*Musatea globata* Galtier, 1968, p. 1004-1007, pl. 1, figs. 1-15; pl. 2, figs. 19-28; coenopterid fern, fructification; Roannais and near Autun, France; Lower Carboniferous.
- MYELONTORDOXYLON** Mussa, 1978  
*Myelontorodoxylon vittii* Mussa, 1978, p. 170-173, pls. 4-5, figs. 18-31; Pedreira Maluf, near Piracicaba, São Paulo, Brazil; Permian, Irati Formation.
- MYXOCOCCOIDES** Schopf, 1968  
*Myxococcoides minor* Schopf, 1968, p. 676, pl. 81, fig. 1; pl. 83, fig. 10; "alga," Chroococcaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.
- N
- NANAMANICOSIPHONIA** Cao and Zhao, 1978  
*Nanamanicosiphonia minuta* Cao and Zhao, 1978, p. 35, pl. 1, fig. 4; fossil alga; southwest China; Sinian.
- NATALIANA** Baxter, 1978  
*Nataliana sinuata* Baxter, 1978, p. 79-84, 3 pls.; lycophyta incertae sedis; Lost Creek Mine, Oskaloosa, Iowa, U.S.A.; Middle Pennsylvanian, Des Moinesian Series.
- NAUCLEAPHYLLUM** Louvet and Mouton, 1970  
*Naucleaphyllum ovale* Louvet and Mouton, 1970, p. 82-85, pl. 2; fossil leaf; Libya; Oligocene.
- NELCANELLA** Vologdin and Drozdova, 1964  
*Nelcanella stellata* Vologdin and Drozdova, 1964, p. 114-115, pl. 1, figs. 3A, 5; algae; Ayany-Maysky region of the Russian Far East; Uchur series, Proterozoic.
- NEOANNULARIA** Wang Xifu, 1977  
*Neoannularia shanxiensis* Wang Xifu, 1977, p. 185-187, pl. 1, figs. 1-9; whorled leaf-bearing stems; Sichuan-Shanxi area, China; Upper Triassic.
- NEOCHARA** Wang Zhen, 1978  
*Neochara huananensis* Wang Zhen, 1978, p. 112-113, pl. 5, figs. 21-24, 40-45; charophyte; Yangtze-Han River basin, China; Paleogene.
- NEOMACROPORELLA** Crescenti, 1964  
*Neomacroporella cretacea* Crescenti, 1964, p. 8, pl. 1, figs. 5, 6; pl. 2, figs. 1, 2, 4; calcareous algae, Dasycladaceae; Italy; Cretaceous.
- NEOMARIOPTERIS** Maithy, 1972  
*Neomariopteris polymorpha* (Feistmantel) Maithy, 1972, p. 70-75, pl. 1, figs. 1-4; new name for *Sphenopteris polymorpha* Feistmantel, 1876, p. 365, pl. 16, figs. 5-7; pl. 17, figs. 1-3; fern fronds; Raniganj coal field, Bengal, India; Permian.
- NEOMIZZIA** Lévy, 1966  
*Neomizzia elongata* Lévy, 1966, p. 37, pl. 1, figs. 1, 2; articulated dasyclad; Rharrb-Prerif, Morocco; Lower Jurassic. ING
- NEOSTACHYA** Wang Xifu, 1977  
*Neostachya shanxiensis* Wang Xifu, 1977, p. 188-189, pl. 2, figs. 1-10; fossil cone; Sichuan-Shanxi area, China; Upper Triassic.
- NEOTEUTLOPORELLA** Bassoulet, 1978  
*Neoteutloporella socialis* (Radoicic) Bassoulet, Bernier, Conrad, Deloffre and Jaffrezo, 1978, p. 184, pl. 21, figs. 5-7; calcareous algae, Dasycladaceae; l'Apennin central, Italy; Upper Jurassic. New name for *Teutloporella gallaeformis* Radoicic, 1964, p. 219-235.
- NEPHROSTROBUS** Chachlov, 1940  
 \**Nephrostrobis degaliensis* Chachlov, V. A., 1940, Trudy Nauk Konf. Izuc. Osvolnie Proizv. Sibiri, v. 2, p. 188; strobilus, Coniferales; Degali, Lower Tunguska River, U.S.S.R.; Upper Carboniferous. ING
- NIGRELLA** Nikitin, 1976  
*Nigrella spinulosa* Nikitin, P. A. ex Nikitin, V. P., 1976, Trudy Inst. Geol. Geofiz., v. 233, p. 193, pl. 74, figs. 15-23; seed; Kireevskoe, Ob River, Tomsk District, western Siberia, U.S.S.R.; Miocene. ING
- NIKITINELLA** Dorofeev, 1974  
 \**Nikitinella tawdensis* Dorofeev, V. I., 1974, Iskopaemye Cvetkovye Rast.

- U.S.S.R., v. 1, p. 63; seed, Nymphaeaceae; Vaskovo, western Siberia, U.S.S.R.; Oligocene. ING
- NILSSONIOCLADUS** Kimura and Sekido, 1975
- Nilssoniocladus nipponense* Kimura and Sekido, 1975, p. 113-116, pl. 1, figs. 1-4; pl. 2, figs. 1-5; new name for *Nilssonia nipponensis* Yokoyama, 1889, p. 42, pl. 6, fig. 8d; pl. 7, figs. 2-7, 8a; pl. 12, fig. 1; pl. 13, fig. 1; foliage, Nilssoniaceae; Ishikawa Prefecture, central Honshu, Japan; Lower Cretaceous.
- NITOPHYLLITES** Iljinskaya, 1963
- Nitophyllites zaisanica* Iljinskaya, 1963, p. 174, pl. 1, illus. 1, 1a, 1b; pl. 2, illus. 1, 1a, 1b; leaves, Araceae; Kazakhstan, Zaysan depression, U.S.S.R.; Paleocene.
- NORDIA** Krylov and Perttunen, 1978
- Nordia laplandica* Krylov and Perttunen, 1978, p. 90-93, pl. 3, stromatolite; Tervola region, northwest Finland; Aphebian.
- NORWOODIA** Rothwell, 1976
- Norwoodia angustum* Rothwell, 1976, p. 307-315, pls. 45-46; pteropsid fructifications, Pteridophyta; Pittsburg and Midway Coal Co., no. 19 mine. Cherokee County, Kansas, U.S.A.; Middle Pennsylvanian.
- NOSTOCOPSIS** Mädlar, 1963
- Nostocopsis saprolitheca* Mädlar, 1963, p. 312-313, pl. 15, fig. 1; alga; Ziegelei Osterfeld bei Goslar, Germany; Lias, Lower Jurassic.
- NOSTOCOPSIS** Yin and Li, 1978
- Nostocopsis desmoides* Yin and Li, 1978, p. 89, pl. 8, fig. 15; alga, Nostocaceae; southwest China; Precambrian.
- NOTHOCHARA** Musacchio, 1973
- Nothochara apiculata* Musacchio, 1973, p. 8-9, pl. 2, figs. 1, 4-5, 7-12; gyrogonite; Neuquen Province, Argentina; Upper Cretaceous.
- NOTOTHYLACITES** Nêmejc and Pacltová, 1972
- Notothylicites filiformis* Nêmejc and Pacltová, 1972, p. 23-26, pls. 1-4; hepaticoid dichotomizing thalli; Zliv-Blana, south Bohemian Basin, Czechoslovakia; lower Senovian.
- NOUATILA** Bertrand-Sarfati, 1972
- Nouatila frutescens* Bertrand-Sarfati, 1972, p. 133-134, pl. 20, figs. 1-2; stromatolite; Guelb Nouatil, Atar, Mauritania, West Africa; upper Precambrian.
- NUCELLOSPHAERIDIUM** Timofeev, 1963
- Nucellosphaeridium deunfii* Timofeev, 1963. Noticed in Timofeev, 1969, Sferomorphy proterozoia, p. 23.
- NUIA** Maslov, 1954
- Nuia siberica* Maslov, 1954, p. 526, pl. 1; algae incertae sedis; Angara River, eastern Siberia, U.S.S.R.; Ordovician. ING
- NYMPHAR** Ozaki, 1978
- Nymphar ebae* (Huzioka) Ozaki, 1978, p. 14-19, pl. 1, figs. 1, 3-5; fossil leaf of the Nymphaeaceae family; Gifu Prefecture, Japan; lower Miocene Nakamura Formation. New name for *Nuphar ebae* Huzioka, 1964, Jour. Min. Coll. Akita Univ., ser. A., v. 3, no. 4, p. 82-83, pl. 11, fig. 6; pl. 12, figs. 1-3.
- O
- OBCONICOPHYCUS** Schopf and Blacic, 1971
- Obconicophycus amadeus* Schopf and Blacic, 1971, p. 950, pl. 107, figs. 1a, b; alga; Ellery Gorge, 80 km west of Alice Springs, Northern Territory, Australia; Precambrian.
- OCHOTOPTERIS** Lebedev, 1974
- Ochotopteris ochotensis* Lebedev, 1974, p. 46-47, pl. 9, fig. 7; pteridophyll; lower reaches of Ilinurek-Makit, left tributary of the Tyl River, West Priokhotsk, U.S.S.R.; Albian.
- OMACHTENIA** Nuzhnov, 1967
- Omachtenia omachtensis* (Nuzhnov) Nuzhnov, 1967, p. 132, pl. 1, figs. 1-2; stromatolite; Siberian platform, U.S.S.R.; Precambrian(?).
- ONCOBELLA** Reid and Chandler, 1933
- Oncobella polysperma* Reid and Chandler, 1933, p. 412, pl. 21, figs. 19-24; fruit, Flacourtiaceae; Sheppey, Kent, England; Eocene. ING
- OOCAMPSA** Andrews, Gensel, and Kasper, 1975
- Oocampsia catheta* Andrews, Gensel, and Kasper, 1975, p. 1719-1728, figs. 1-12; branching plant with small monosporangiate sporangia; possibly intermediate between trimerophytes and progymnosperms; one-half mile west of Dalhousie Junction, New Brunswick, Canada; Middle Devonian.
- ORDOVICIMYCES** Elias, 1966
- Ordovicimycetes gallowayi* Elias, 1966, p. 12-13, figs. 46-67; algal and fungal, Ordovicimycetes; no locality given; Ordovician.
- ORIENSPHYTON** Stepanov, 1967
- Oriensphyton yakubovii* Stepanov, S.,



1967. Noticed in Stepanov, S. A., 1975, p. 73-75, pl. 28, figs. 1-8; Primofilices, incertae sedis; Devonian.
- OSCILLATORIOPSIS** Schopf, 1968  
*Oscillatoriopsis obtusa* Schopf, 1968, p. 666-667, pl. 77, fig. 8; "alga," Oscillatoriaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.
- OSMUNDACAULIS** Miller, 1967  
*Osmundacaulis skidegatus* (Penhallow) Miller, 1967, p. 146; rhizomes, roots, leaf-bases, Osmundaceae; a new name for *Osmundites* Unger because of prior use by Jaeger, 1827. ING
- OTOFOLIUM**, 1974  
*Otofolium polymorphum*, 1974, p. 164-165, pl. 127, figs. 2-6; leaflets, Coniferae; China; Carboniferous. In Paleozoic plants of China: Nanking Inst. Geol. and Palaeont., 1974 (in Chinese).
- OUGENIOXYLON** Prakash and Tripathi, 1975  
*Ougenioxylon tertiarum* Prakash and Tripathi, 1975, p. 140-142, pl. 1, figs. 1-3; pl. 2, figs. 5-6; fossil wood; Sultanicherra, Assam, India; Tertiary.
- P
- PAEONIAECARPUM** Andreanszky, 1961  
*\*Paeoniaecarpum hungaricum* Andreanszky, 1961, Ann. Hist. Nat. Mus. Natl. Hung., v. 53, p. 15; fruit, Ranunculaceae; Szelecsi Valley, Hungary; Miocene, Sarmatian. ING
- PAGODAPORELLA** Elliott, 1966  
*Pagodaporella wetzelii* Elliott, G. F., 1966, Micropaleontology, v. 2, p. 333; Dasycladaceae; Bekhme, Erbil Luva, northern Iraq; Paleocene. ING
- PALAEOANACYSTIS** Schopf, 1968  
*Palaeoanacystis vulgaris* Schopf, 1968, p. 672-676, pl. 82, figs. 5-7; "alga," Chroococcaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.
- PALAEOARTHRODENDRON** Dayal, 1964  
*Palaeoarthrodendron diffusum* (Ulrich) Dayal, 1964, p. 716-717; Alaska; Lower Jurassic. Revised name for *Arthrodendron* Ulrich, 1904, Harriman Alaska Exped., Geology and Paleontology, p. 138.
- PALAEOBERESELLA** Mamet and Roux, 1974  
*Palaeoberesella lakuseni* (von Möller, 1879) Mamet and Roux, p. 138, alga, Palaeobereselleae; Vyazma, U.S.S.R.; Viséan. New name for *Nodosinella lakuseni* von Möller, 1879, p. 75, pl. 5, figs. 6-7; pl. 3, fig. 5.
- PALAEOEURYALE** Dorofeev, 1972  
*Palaeoeuryale sukaczevii* (Dorofeev) Dorofeev, 1972, p. 1052, pl. 1, figs. 7, 8; pl. 2, fig. 7; seed, Nymphaeaceae; Lezanki, Irtyse, Omskaja District, U.S.S.R.; upper Miocene. New name for *Eurale sukaczevii* Dorofeev. ING
- PALAEOGEMINELLA** Fairchild and Schopf, 1973  
*Palaeogeminella folkii* Fairchild and Schopf, 1973, p. 951, pl. 1, figs. 1-9; Chlorophyceae-Ulotrichaceae; Brewster County, Texas, U.S.A.; Upper Devonian. ING
- PALAEOGIRVANELLA** Krasnopeeva, 1937  
*\*Palaeogirvanella ergiensis* Krasnopeeva, P. S., 1937, Mater. Geol. Krasnojarsk. Kraja, v. 3, p. 12; algae; Potehino, Hakassia, Kuznetsk, Alatau Range, U.S.S.R.; Cambrian. ING
- PALAEOLEPTOPHYCUS** Korde, 1954  
*\*Palaeoleptophycus varsanofievae* (Korde) Korde, 1954, Mater. Osnov. Paleontol., v. 2, p. 104; Cyanophyceae, Rivulariaceae; near Boguchany, Krasnoyarsk Territory, U.S.S.R.; Upper Cambrian. New name for *Leptophycus varsanofievae* Korde. ING
- PALAEOLYNBYA** Schopf, 1968  
*Palaeolynbya barghoorniana* Schopf, 1968, p. 665-666, pl. 77, figs. 1-5; "alga," Oscillatoriaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.
- PALAEOMICROCOLEUS** Korde, 1965  
*Palaeomicrocoleus grumeri* Korde, 1965, p. 432, pl. 1, fig. 5; Cyanophyceae, Schizotrichaceae; Minnesota, U.S.A.; Precambrian, Huronian. ING
- PALAEOMICROCYSTIS** Maithy, 1975  
*Palaeomicrocystis schopfii* Maithy, 1975, p. 138, pl. 2, figs. 11, 12; algal, long and narrow filaments, Chroococcaceae; Kan-shi, Zaire; Bushimay Supergroup, upper Precambrian.
- PALAEONITES** Maslov, 1956  
*Palaeonites jacutii* (Maslov) Maslov, 1956, p. 80, pl. 25, fig. 2; Rhodophyceae, Proauloporaceae; Lena River, Yakutsk, U.S.S.R.; Lower Cambrian. New name for *Epiphyton jacutii* Maslov. ING
- PALAEOPHTHORA** Singhai, 1978  
*Palaeophthora mohgaonensis* Singhai,



- 1978, p. 481-485, pl. 1, figs. 1-5; fungus, Pythiaceae; Mohgaon-kalan, Chhindwara District, Madhya Pradesh, India; Deccan Intertrappean beds, Tertiary.
- PALAEOPINULXYLON** Mussa, 1974  
*Palaeopinuxylon josuei* Mussa, 1974, p. 510-511, pls. 1-5; wood, Protopinaceae; Uberlandia, Minas Gerais, Brazil; Lower Cretaceous.
- PALAEOSCLEROTIUM** Rothwell, 1972  
*Palaeosclerotium pusillum* Rothwell, 1972, p. 2353-2356, 8 figs.; fossil fungal sclerotia; Harrisburg Quadrangle, Williamson County, Illinois, U.S.A.; Carbondale Formation, Middle Pennsylvanian.
- PALAEOSCYTONEMA** Maithy and Shukla, 1977  
*Palaeoscytonema srivastavae* Maithy and Shukla, 1977, p. 179-180, pl. 2, figs. 13, 14; algae, Oscillatoriaceae; Ramapura, Madhya Pradesh, India; Semri series, Vindhyan system, upper Precambrian.
- PALAEOSIDEROXYLON** Grambast-Fessard, 1968  
*Palaeosideroxylon flammula* Grambast-Fessard, 1968, p. 65-70, pls. 1-4; wood, Sapotaceae; Rayau near Castellane, Basses-Alpes, France; upper Miocene. ING
- PALAEOSIPHONELLA** Licari, 1978  
*Palaeosiphonella cloudii* Licari, 1978, p. 785-788, pl. 3, figs. 10-11; alga, incertae sedis; eastern California, U.S.A.; upper pre-Phanerozoic.
- PALEOCLOSTERIUM** Baschnagel, 1966  
*Paleoclosterium leptum* Baschnagel, 1966, p. 299-300, figs. 3-4; freshwater algae; Lancaster, New York, U.S.A.; in Onondaga Limestone chert, Middle Devonian.
- PALEOCYSTOPHORA** Parker and Dawson, 1965  
*\*Paleocystophora subopposita* Parker, B. C. and Dawson, E. Y., 1965, Nova Hedwigia, v. 10, p. 285; Phaephyceae, Cystoseiraceae; Los Angeles County, California, U.S.A.; Miocene, upper Miocene. ING
- PALEODIDYMOPRIUM** Baschnagel, 1966  
*Paleodidymoprium didymum* Baschnagel, 1966, p. 300, fig. 5; freshwater algae; 2 miles east of Richfield Springs, New York, U.S.A.; chert in Onondaga Limestone, Middle Devonian.
- PALEOOEDOGONIUM** Baschnagel, 1966  
*Paleooedogonium micrum* Baschnagel, 1966, p. 299, figs. 1, 2; freshwater algae; Buffalo, New York, U.S.A.; chert in Onondaga Limestone, Middle Devonian.
- PALEOOREOMUNNEA** Dilcher, Potter, and Crepet, 1976  
*Paleooreomunnea stoneana* Dilcher, Potter, and Crepet, 1976, p. 539-541, figs. 26-32; winged fruit, Juglandaceae; Warman, Weakley County, Tennessee, U.S.A.; middle Eocene.
- PALEOPIKEA** Parker and Dawson, 1965  
*Paleopikea cranei* Parker, B. C., and Dawson, E. Y., 1965, Nova Hedwigia, v. 10, p. 288; Rhodophyceae, Dumontiaceae; Los Angeles County, California, U.S.A.; Miocene, lower Lusiian. ING
- PALEOPLEUROCAPSA** Knoll, Barghoorn, and Golubic, 1975  
*Paleopleurocapsa wopfneri* Knoll, Barghoorn, and Golubic, 1975, p. 2489, fig. 1; algae, Cyanophyta; near Port Augusta, South Australia; Precambrian. ING
- PALEOROSA** Basinger, 1976  
*Paleorosa similkameenensis* Basinger, 1976, p. 2293-2305, 14 figs.; permineralized flower, Rosaceae; 8.4 km south-southwest of Princeton, British Columbia, Canada; Allenby Formation, middle Eocene.
- PALEOSIPHONIA** Parker and Dawson, 1965  
*\*Paleosiphonia oppositoclada* Parker, B. C. and Dawson, E. Y., 1965, Nova Hedwigia, v. 10, p. 288, Rhodophyceae, Gloiosiphoniaceae; Los Angeles County, California, U.S.A.; Miocene, upper Miocene. ING
- PALEOTHAMNION** Parker and Dawson, 1965  
*\*Paleothamnion aciculare* Parker, B. C., and Dawson, E. Y., 1965, Nova Hedwigia, v. 10, p. 290; Rhodophyceae, Ceramiales; Los Angeles County, California, U.S.A.; Miocene, lower Lusiian. ING
- PALUSTRAPALMA** Daghljan, 1978  
*Palustrapalma agathae* Daghljan, 1978, p. 73, pl. 2, fig. 10; pl. 7, figs. 24, 26; pl. 10, figs. 38, 39; pl. 11, figs. 40-43; pl. 12, figs. 44-50; pl. 13, figs. 51-54; pl. 14, figs. 55-56; fossil palm leaves; Marion County, Texas, U.S.A.; Wilcox Group, lower Eocene.
- PARACMOPYLE** Krassilov, 1967  
*Paracmopyle sutschanica* Krassilov, 1967, p. 19, *P. florinii* is pl. 68, figs. 1-4; Coniferales; Primorye, U.S.S.R.; Lower Cretaceous.
- PARACOLONNELLA** Tsao and Liang, 1974  
*Paracolonnella laohudingensis* Tsao and Liang, 1974, p. 12-13, pl. 4, figs. 3-4; Solenopora; China; Sinian.

- PARACONOPHYTON** Liang and Tsao, 1974  
*Paraconophyton inconspicua* Liang and Tsao, 1974, p. 12, pl. 8, fig. 2; alga, Corallinaceae; China; Sinian.
- PARAGARWOODIA** Poncet, 1974  
*Paragarwoodia balbinia* Poncet, 1974, p. 226, pl. 4, fig. 1; calcareous algae, Codiaceae; Americain Massif, Baubigny (Manche), western France; Lower Devonian.
- PARAGONDWANIDIUM** Meyen, 1967  
*Paragondwanidium sibiricum* (Petunn.) Meyen, 1967, p. 145-146, text fig. 5; leaves with distinct midrib and lateral veins concentrated in bundles; Angara, U.S.S.R.; Permian.
- PARAKAMAENA** Mamet and Roux, 1974  
*Parakamaena tenuisepta* (Mamet and Rudloff, 1972) Mamet and Roux, 1974, p. 139-140 (pl. 5, fig. 11 in Mamet and Rudloff, 1972); alga, Palaeobereselleae; Northern Hemisphere; Lower Carboniferous. New name for *Kamaena?* *tenuisepta* Mamet and Rudloff, 1972.
- PARALANCICULA** Shuyskiy, 1973  
*Paralancicula fibrosa* Shuyskiy, 1973, p. 18-20, pl. 1, figs. 1-3; green algae, Codiaceae; western slopes of the central Urals, U.S.S.R.; Lower Devonian.
- PARALYCOPODITES** Morey and Morey, 1977  
*Paralycopodites minutissimum* Morey and Morey, 1977, p. 64-69, pls. 1-2; branching lycopod axis; Williamson County, Illinois, U.S.A.; Middle Pennsylvanian.
- PARAMICROTHALLITES** Jain and Gupta, 1970  
*Paramicrothallites (Microthallites) spinulatus* (Dilcher) Jain and Gupta, 1970, p. 179, fig. in Dilcher, 1965, pl. 12, fig. 92; epiphyllous fungus, Microthyriaceae; Eocene.
- PARAOEROMUNNEA** Dilcher, Potter, and Crepet, 1976  
*Paraoeromunnea puryearensis* (Berry) Dilcher, Potter, and Crepet, 1976, p. 536-537, figs. 7-15, 22, 23, for *Engelhardia* (sic.) *puryearensis* Berry, 1916, 1930; winged fruit, Juglandaceae; Henry County, Tennessee, U.S.A.; Eocene.
- PARAPSILOPHYTON** Senkevich, 1972  
*\*Parapsilophyton balkhashensis* Senkevich, M. A., 1972, Novye Vidy Drevnih Rast. Bespozvonocnyh S.S.S.R., p. 298; Psilopsida; Kazanstan, U.S.S.R.; Devonian, Eifelian. ING
- PARASOLENOPORA** Tsao and Zhao, 1974  
*Parasolenopora irregularis* Tsao and Zhao, 1974, p. 70, pl. 25, fig. 2; ?Solenoporaceae; southwest China; Sinian, Tongying Formation. Noticed in Cao Ruiji and Zhao Wenjie, 1978, p. 24.
- PARASOROCAULUS** Turutanova-Ketova, 1968  
*\*Parasorocaulus corticalis* Turutanova-Ketova, A. I., 1968, Novye Vidy Drevnih Rast. Bespozv. S.S.S.R., v. 2, no. 1, p. 18; branch with leaves, Phyllotheceae; Saur Range, eastern Kazakhstan, U.S.S.R.; Upper Triassic and Lower Jurassic. ING
- PARASPOROTHECA** Dennis and Eggert, 1978  
*Parasporotheca leismanii* Dennis and Eggert, 1978, p. 117-139, 45 figs.; compound synangiate pollen organ; Berryville, Illinois, U.S.A.; Mattoon Formation, Upper Pennsylvanian.
- PARATERNSTROEMIA** Hickey, 1977  
*Paraternstroemia hyphovenosa* Hickey, 1977, p. 140, pl. 42, figs. 2, 4; pl. 43, fig. 1; fossil leaf; Stark County, North Dakota, U.S.A.; Camels Butte Member, Golden Valley Formation, Eocene.
- PARATINOMISCIMUM** Wolfe, 1977  
*Paratinomiscium conditionalis* (Hollick) Wolfe, 1977, p. 65, pl. 7, fig. 5; fossil leaf; Yakutat Bay, Alaska, U.S.A.; Tertiary.
- PARATORDOXYLON** Mussa, 1978  
*Paratordoxylon camposi* Mussa, 1978, p. 174-177, pls. 8-11, figs. 49-64; gymnospermous wood; Pedreira Maluf, near Piricicaba, São Paulo, Brazil; Permian, Irati Formation.
- PARASTACHEIA** Mamet and Roux, 1977  
*Parastacheia iglii* Mamet and Roux, 1977, p. 221, pl. 2, figs. 2-3; alga; Igli, Algeria; upper Viséan.
- PARMATHYRITES** Jain and Gupta, 1970  
*Parmathyrites indicus* Jain and Gupta, 1970, p. 177-178, pl. 1, fig. 1; fossil fungus, Microthyriaceae; Padappakara (11 km northeast of Quilon), western Ghat, India; Tertiary, Miocene.
- PARSOROPHYLLUM** Lele, 1969  
*Parsorophyllum indicum* Lele, 1969, p. 313-318, 2 pls.; fern-like frond; South Rewa Basin, Madhya Pradesh, India; Parsora Stage, middle Gondwana, Triassic.
- PARTHA** Surange and Chandra, 1971  
*Partha indica* Surange and Chandra, 1971, new name for *Lidgettonia indica* Surange and Maheshwari, 1970, p. 356-358, pl. 1, figs. 1-4; fertile leaf, Glossopteridales; Hinjrida Ghati, north



- of Handappa in the Denkanal District, Orissa, India; Permian.
- PARTITIOFILUM** Schopf and Blacic, 1971  
*Partitiofilum gongyloides* Schopf and Blacic, 1971, p. 947, pl. 105, fig. 3; pl. 106, fig. 6; alga; Ellery Gorge, 80 km west of Alice Springs, Northern Territory, Australia; Precambrian.
- PECTINANGIUM**, 1974  
*Pectinangium lanceolatum*, 1974, p. 166-167, pl. 128, figs. 9-12; fructifications, Coniferae; China; Carboniferous. In Paleozoic plants of China: Nanking Inst. Geol. and Palaeont., 1974 (in Chinese).
- PEKINOPTERIS** Hope and Patterson, 1970  
*Pekinopteris auriculata* Hope and Patterson, 1970, p. 1137-1139, figs. 1A, B, C; fernlike plant, incertae sedis; central North Carolina, U.S.A.; Upper Triassic, Pekin Formation.
- PEKISKOPORA** Mamet, 1974  
*Pekiskopora macqueeni* Mamet, 1974, p. 40, 42, pl. 1, figs. 1-11; pl. 2, figs. 1-11; alga, Dasycladaceae; region of Mt. Hanington, British Columbia, Canada; Tournaisian.
- PENDULOSTACHYS** Good, 1975  
*Pendulostachys cingulariformis* Good, 1975, p. 69-72, pl. 13, fig. 118; pl. 14, figs. 119-128; pl. 15, fig. 129; calamitean cone; Berryville, Lawrence County, Illinois, U.S.A.; Pennsylvanian.
- PENOSPHYLLUM** Hickey, 1977  
*Penosphyllum cordatum* (Ward) Hickey, 1977, p. 139, pl. 43, fig. 2; fossil leaf; below Glendive, Montana, U.S.A.; Fort Union Formation. New name for *Pterospermites cordatus* Ward, 1887, p. 93, pl. 41, fig. 4.
- PENTAPORELLA** Senowbari-Daryan, 1978  
*Pentaporella rhaetica* Senowbari-Daryan, 1978, p. 6-12, figs. 1-9; dasycladacean alga; Hintersee/Salzburg, Austria; upper Rhaetian.
- PERISPERMUM** Darrah, 1969  
*Perispermum pachytestum* (Lesquereux) Darrah, 1969, p. 167-169; gymnosperm seeds; Mazon Creek, Illinois, U.S.A.; Middle Pennsylvanian. New name for *Rhabdocarpus pachytesta* Lesquereux, 1884, pl. 110, figs. 37-38.
- PERISPORITES** Pampaloni, 1902  
*Perisporites hirsutus* Pampaloni, 1902, p. 126, pl. 10, fig. 9; fungi, Perisporiaceae; Melilli, Sicily, Italy; Tertiary.
- PERMOPERPLEXELLA** Elliott, 1968  
*Permoperplexella attenuata* Elliott, 1968, p. 64, pl. 17, figs. 1-5; calcareous alga, Dasycladaceae; Ora, Mosul, Iraq; Permian, Zinnar Formation. ING
- PERSICOPTERIS** Boureau and Fakhr, 1975  
*Persicopteris pachypterioides* Boureau and Fakhr, 1975, p. 269-271, fig. 219; Pecopterideae; Shemshak, Iran; Rhaetic and Lias. In Boureau and Doubinger, 1975.
- PERSITES** Hickey, 1977  
*Persites argutus* Hickey, 1977, p. 127, pl. 26, figs. 1, 4, 6, 8; pl. 27, fig. 1; fossil leaves; Morton County, North Dakota, U.S.A.; Bear Den Member, Golden Valley Formation, upper Paleocene.
- PETRASCULA** Gümbel, 1873  
*Petrascula bursiformis* (Etallon) Gümbel, 1873, p. 292, pl. 1, figs. 1-15; Dasycladaceae; Switzerland; Upper Jurassic. New name for *Conodictyum bursiforme* Etallon, 1858, p. 530. ING
- PHACELOFIMBRIA** Tsao and Zhao, 1974  
*\*Phacelofimbria emeishanensis* Tsao and Zhao, 1974, p. 70, pl. 24, figs. 1, 2; microproblematica; southwest China; Sinian, Tongying Formation. Noticed in Cao Ruiji and Zhao Wenjie, 1978, p. 26.
- PHANEROSPHEROPS** Schopf and Blacic, 1971  
*Phanerospaerops capitaneus* Schopf and Blacic, 1971, p. 951-952, pl. 110, figs. 11, 14a-d; alga; Ellery Gorge, 80 km west of Alice Springs, Northern Territory, Australia; Precambrian.
- PHYTOSPONGIA** Maslov, 1960  
*Phytospongia cylindrica* Maslov, 1960, p. 59, pl. 2, fig. 4; alga; Siberian platform, U.S.S.R.; Ordovician. ING
- PIAZOPTERIS** Lorch, 1967  
*Piazopteris branneri* (White) Lorch, 1967, p. 134, pls. 3, 4, 5; leaves, Matoniaceae; Bahia, Brazil; Jurassic. New name for *Phlebopteris branneri* White, Am. Jour. Sci., v. 35, p. 633.
- PICCOLOMINITES** Unger, 1847  
*Piccolominites sardus* Unger, 1847, p. 90; wood; Sardinia; Miocene. ING
- PICEOSTROBUS** Palibin, 1932  
*Piceostrobus neustruevii* Palibin, 1932, p. 53, figs. 1c, 2; cone, Pinaceae; Tocilnajo Hill, northwest part of Oreburgskaja District, U.S.S.R.; Oligocene. ING
- PIENINIA** Borza and Misik, 1976  
*Pieninia oblonga* Borza and Misik, 1976, p. 65, pls. 1-4; algae; Strazov bei Zilina, Czechoslovakia; Barrême and Apt (Urgon).
- PIPTADENENIOXYLON** Suguio and Mussa, 1978  
*Piptadenenioxylon chimeloi* Suguio and

- Mussa, 1978, p. 30-32, pl. 2, figs. 5-9; wood, Mimosaceae; Itaquaquecetuba, São Paulo City, Brazil; upper Pleistocene.
- PLAFKERIA** Wolfe, 1977  
*Plafkeria rentonensis* (Wolfe) Wolfe, 1977, p. 81; fossil leaf; Renton, Washington, U.S.A.; Paleogene. New name for *Willisia rentonensis* Wolfe, 1968, p. 24, pl. 7, figs. 3, 5.
- PLANUMBELLA** Platonov, 1974  
*Planoumbella patella* (Bykova) Platonov, 1974, p. 99; charophyte; Voronezh Province, U.S.S.R.; Frasnian. New name for *Umbella patella* Bykova, 1955, p. 37 (pars).
- PLEUROCAPSITES** Maslov, 1960  
*Pleurocapsites angaricus* Maslov, 1960, p. 62, pl. 4, figs. 4-5; alga; Siberian platform, U.S.A.; Ordovician. ING
- PLEUROMEIOPSIS** Sixel, 1958  
*\*Pleuromeiopsis kryshstofovichii* Sixel, T. A., 1958, Trudy Sredneazitsk. Univ. nova ser. 125, Geol. Nauk, v. 10, p. 67; leaves, Lycopodiophyta; Madygen field, southern Fergana intermountain basin, Uzbekistan, U.S.S.R.; Upper Permian and Lower Triassic. ING
- PLUMSTEADIELLA** Le Roux, 1966  
*Plumsteadiella elegans* Le Roux, 1966, p. 37-43, pl. 1, fig. 1; pl. 2, figs. 1-2; fructification; Vereeniging, Transvaal, Africa; Carboniferous and Permian.
- PLUMSTEADIOSTROBUS** Chandra and Surange, 1974  
*Plumsteadiostrobus ellipticus* Chandra and Surange, 1974, p. 161-175, 6 pls.; multiovulate, elliptical, female reproductive organ fructification; Raniganj coal field, Bengal, India; Raniganj Stage, Permian.
- PODOCARPIUM** Unger, 1864  
*\*Podocarpium daerydiodes* Unger, F.A.J.A.N., 1864, Reise Novara Erde, Geol. Theil, v. 1, no. 2, p. 13; Podocarpaceae. ING
- POIKILOPORELLA** Pia, 1943  
*Poikiloporella duplicata* (Pia) Pia, 1943, p. 28; alga, Dasycladaceae; Austria; Karn. New name for *Oligoporella duplicata* Pia, 1920, p. 48, pl. 2, figs. 23-29.
- POLANISIA** Nikitin, 1976  
*Polanisia graveonella* Nikitin in coll., p. 181, pl. 69, figs. 14-17; seeds, Caparidaceae; Mammontova Gora, eastern Siberia, U.S.S.R.
- POLYALTHIOXYLON** Kramer, 1974  
*Polyalthioxylon platymitroides* Kramer, 1974, p. 105-112, pl. 25, figs. 73, 74, 76, 79, 81, 82; fossil wood, Annonaceae; Java; upper Tertiary/lower Quaternary.
- POLYCELLARIA** Pflug, 1965  
*Polycellaria bonnerensis* Pflug, 1965, p. 12, pl. 1, figs. 1-3; fungi; Clark Fork Quadrangle, Idaho-Montana, U.S.A.; Algonkian, Beltian. ING
- POLYLOBOXYLON** Kräusel and others, 1973  
*Polyloboxylon raniganjense* Kräusel and others, 1973, p. 209-210, figs. 45-48; pl. 2, figs. 29-31; wood, Gymnospermae; Rajahanundry, East Fodovari District, peninsular India; Pliocene. ING
- POLYSPHAERINELLA** Mamet, 1973  
*Polyphaerinella bulla* (Conil and Lys) Mamet, 1973, p. 108, pl. 3, figs. 1-3, 5-7; algae incertae sedis; Namur, Belgium; Lower Carboniferous. New name for *Eotubertina bulla* Conil et Lys, which was published as a foraminiferan. ING
- POLYTAENIA** Saporta and Marion, 1885  
*Polytaenia quinquesecta* Saporta and Marion, 1885, p. 119, fig. 125A; leaf; Bagnole, Gard, France; Cretaceous, Turonian. ING
- POLYTRYPES** Defrance, 1826  
*\*Polytrypes elongatus* Defrance, J. L. M., 1826, Dict. Sci. Nat., v. 42, p. 453; Dasycladaceae; Grignon, Seine-et-Oise, France; Eocene, Lutetian. ING
- POPULOXYLON** Andreanszky, 1952  
*\*Populoxylon Andreanszky, G., 1952, Ann. Biol. Univ. Hung., v. 1, p. 18; wood, Salicaceae; Mikofalva, Hungary; upper Miocene. ING*
- POROSPHAERA** Wang Zhen and Huang Ren-jin, 1978  
*Porosphaera maxima* Wang Zhen and Huang Ren-jin, 1978, p. 273, pl. 1, figs. 7, 8; charophyte; Shanxi Province, China; Heshanggon Formation, Triassic.
- POROSIA** Hickey, 1977  
*Porosia verrucosa* (Lesquereux) Hickey, 1977, p. 114, pl. 54, figs. 1-4; fossil seed bodies; Black Buttes, Wyoming, U.S.A.; Tertiary. New name for *Carpites verrucosus* Lesquereux, 1878, p. 305.
- POWYSIA** Edwards, 1977  
*Powysia bassettii* Edwards, 1977, p. 823-832, pls. 110-111; Llangammarch Wells, Powys, Wales; algae incertae sedis; Upper Silurian.
- PRAECHARA** Birina, 1948  
*Praechara chovanensis* Birina, 1948, p. 154, pl. 1, figs. 1-2; algae incertae sedis; Novomoskovskaya, Moskovskaya District, U.S.S.R.; Upper Devonian. ING



- PRAECHARA** Horn af Rantzen, 1954 (non Birina, 1948).
- Præchara müdleri* Horn af Rantzen, 1954, p. 57-64, pl. 5, figs. 6-8; Charaphyceae; Scania, Sweden; Middle Triassic. **ING**
- PRAECHROOCOCCUS** Tsao, 1964
- Præchroococcus pinguinis* Tsao, 1964, p. 353, pl. 1, figs. 1-2; Cyanophyta; China; Sinian. Noticed in Cao Ruiji and Zhao Wenjie, 1978, p. 15.
- PRAEDEPARIA** Stur, 1921
- Prædeparia banatica* Stur, D. ex Krasser, F., 1921, Akad. Wiss. Sitzungsber, Math.-Naturwiss. Kl. Abt. 1, v. 130, p. 347; fertile foliage, Polypodeaceae; Steiersdorf, Banate, Hungary; lower Liassic. **ING**
- PRAEDONEZELLA** Kulik, 1973
- Prædonezella cespeformae* Kulik, 1973, p. 47, pl. 3, figs. 5-6; Rhodophyta; Shar-tyum River, U.S.S.R.; Carboniferous.
- PRAESOLENOPORA** Tsao and Zhao, 1974
- Præsolenopora magniflabella* Tsao and Zhao, 1974, p. 69, pl. 9, fig. 4; ?Solenoporaceae; southwest China; Si-nian, Tongying Formation. Noticed in Cao Ruiji and Zhao Wenjie, 1978, p. 22.
- PRECYCLOSTIGMA** Lejal-Nicol, 1975
- Præcyclostigma tadrartense* Lejal-Nicol, 1975, p. 70-74, pl. 6, figs. 29-31; pl. 7, fig. 33; impression of axes, Sublepidodendraceae; Mourzouk Basin, Libya; Lower Devonian.
- PRELEPIDODENDROPSIS** Senkevich, 1972
- \**Prelepidodendropsis kornilovae* Senkevich, M. A., 1972, Novye Vidy Drevnih Rast. Bespozvonocnyh U.S.S.R., p. 302; Lepidodendropsidaceae; [Kazakhstan], U.S.S.R.; Devonian, Eifelian. **ING**
- PROPYTHIUM** Elias, 1966
- Propythium carbonarium* Elias, 1966, p. 10-11, pl. 1, figs. 12-20; fungus, Pythiaceae; near South Bend, Nebraska, U.S.A.; Missouri series, Upper Penn-sylvanian.
- PROTEACIPHYLLUM** MacGinitie, 1974
- Proteaciphyllum minutum* MacGinitie, 1974, p. 88, pl. 5, fig. 2; pl. 18, fig. 2; fossil leaf; Kisinger Lakes, Wyoming, U.S.A.; middle Eocene.
- PROTOLEMA** Saporta, 1891
- Protolema* Saporta, 1891, p. 251; dicotyledon; Cercal, Portugal; Creta-ceous. **ING**
- PROTOPINAKODENDRON** Radcenko, 1967
- Protopinakodendron asiaticum* (V. A. Chachlov) Radcenko, G. P., 1967; bark, Lepidodendrales; Voznesenskoe, Batoj River, near Krasnoyarsk, Siberia, U.S.S.R.; Lower Carboniferous. New name for *Porodendron asiaticum* Chachlov, 1940, C. R. de la Conference sur les forces de production de la Siberia, v. 2, p. 510, fig. 2. Noticed in Boureau, E., 1967, *Traité Paleobot.*, v. 2, p. 696, fig. 473. **ING**
- PROTOPINUXYLON** Eckhold, 1921
- Protopinuxylon* Eckhold, W., 1921, Hof-tufel Rezent. Fossil. Konif. (2); wood, Coniferae. **ING**
- PROTOPODOCARPITYS** Mussa, 1974
- Protopodocarpitys rôsleri* Mussa, 1974, p. 620-633, pls. 1-5; a podocarpaceous fossil wood; near Piracicaba, São Paulo, Brazil; Permian.
- PROTOSTIGMARIA** Jennings, 1975
- Protostigmara eggertiana* Jennings, 1975, p. 20-23, pl. 3, figs. 1-5; roots, lycopod; Coal Bank Hollow, about 4.2 km north of Blacksburg, Virginia, U.S.A.; Lower Mississippian.
- PROTOTAXOPITYS** Agashe, 1977
- Prototaxopitys andrewsii* (Agashe and Chitnis) Agashe, 1977, p. 278-279. New name for *Prototaxoxylon andrewsii* Agashe and Chitnis.
- PROTOTAXOXYLON** Kräusel and Dolianiti, 1958
- Prototaxoxylon africanum* (Walton) Kräusel and Dolianiti, 1958, p. 126; fossil wood, sekundäres gym-nospermenholz; South Africa; Permian.
- PROTOTROCHODENDROIDES** Budanev and Kirichova, 1966
- Prototrochodendroides jacutica* Budanev, L. J. and Kirichova, A. I., 1966, Trudy Vsesojuzn. Neft. Nauc Geologorazved. Inst., v. 249, p. 164; leaf, Ranunculales; Lepiske River, tributary of Lena, Yakutia, U.S.S.R.; Cretaceous, Al-bian. **ING**
- PROTOUMBELLA** Mamet, 1970
- Protoumbella saccameniformis* (Bykova) Mamet, 1970, p. 1169; Charophyceae; Uryupansk District, Stalingrad region, U.S.S.R.; Upper Devonian, Famennian. New name for *Umbella saccameniformis* Bykova, in Bykova and Polenova, 1955, p. 44, pl. 9, figs. 10-11; pl. 16, figs. 1-2. **ING**
- PSEUDAGATHOXYLON** Greguss, 1974
- Pseudagathoxylon eplényense* Greguss, 1974, p. 167-187, 3 pls.; wood, Con-iferae; Eplny, Hungary; Jurassic.
- PSEUDOCLYPEINA** Radoicic, 1970
- Pseudoclypeina cirici* Radoicic, 1970, p. 4,

- figs. 1a-3; calcareous thallus, Dasycladaceae; Yugoslavia; Kimriddig to Aptien.
- PSEUDOCONUS** Krasnopeeva, 1937  
*\*Pseudoconus convexus* Krasnopeeva, P. S., 1937, Mater. Geol. Krasnojarsk Kraja, v. 3, p. 9; thallus, algae; near Potehino, Hakassia, Kuznetsk Alatau Range, U.S.S.R.; Precambrian, Algonkian. ING
- PSEUDOEURALE** Dorofeev, 1972  
*Pseudoeurale dravertii* Dorofeev, 1972, p. 1050-1051, pl. 1, figs. 4, 5; pl. 2, fig. 2; seed, Nymphaeaceae; Lezanki, Irtyse, Omskaja District, U.S.S.R.; upper Miocene.
- PSEUDOGYMNOSOLEN** Liang and Tsao, 1974  
*Pseudogymnosolen mopanyüensis* Liang and Tsao, 1974, p. 15, pl. 7, figs. 5-7; alga, Corallinaceae; China; Sinian.
- PSEUDOHARRISICCHARA** Musacchio, 1973  
*Pseudoharrisichara walpurgica* Musacchio, 1973, p. 10-12, pl. 3, figs. 9-16; pl. 4, figs. 3, 5; gyrogonite; Neuquen and Rio Negro Provinces, Argentina; Upper Cretaceous.
- PSEUDOHEDSTROEMIA** Mamet and Roux, 1978  
*Pseudohedstroemia polyfurcata* Mamet and Roux, 1978, p. 71, pl. 2, figs. 1-5; pl. 7, fig. 16; codiacean alga; northernmost Tennessee, U.S.A.; Calcaire de Saint-Louis.
- PSEUDOHIPIDOPSIS** P'an, 1974  
*Pseudohipidopsis brevicaulis* (Kaw and Kon'no) P'an, 1974, p. 148, pl. 117, figs. 4-9; leaflets; China; Carboniferous. In Paleozoic plants of China: Nanking Inst. Geol. and Palaeont., 1974 (in Chinese).
- PSEUDOLATOCHARA** Wang Zhen, 1978  
*Pseudolatochara jiangnanensis* Wang Zhen, 1978, p. 74-75, pl. 5, figs. 36-42; charophyte; Yangtze-Han River basin, China; Cretaceous.
- PSEUDONANOPORA** Mamet and Roux, 1975  
*Pseudonanopora stockmansii* Mamet and Roux, 1975, p. 251, pl. 2, figs. 1-6; algae, Dasycladaceae; Tramaka, Belgium, and Igli, Algeria; Carboniferous.
- PSEUDOPHYLLOTHECA** Turutanova-Ketova, 1968  
*\*Pseudophyllothea torosa* Turutanova-Ketova, A. I., 1968, Novye Vidy Drevnih Rast. Bespozv. U.S.S.R.; branch with leaves, Calamophyta; Kenderlyk coal deposit, Saur Range, eastern Kazakhstan, U.S.S.R.; Upper Triassic and Lower Jurassic. ING
- PSEUDORHACOPTERIS** Rigby, 1973  
*Pseudorhacopteris ovata* (McCoy) Rigby, 1973, p. 1; barren fronds, Pteridospermae; Arowa, New South Wales, Australia; Upper Paleozoic. New name for *Oopteris ovata* McCoy, 1847, pl. 9, fig. 2.
- PSEUDOSOLENOPORA** Mamet and Roux, 1977  
*Pseudosolenopora owodenkoi* (Chanton-Güvenc, 1972) Mamet and Roux, 1977, p. 233-236; alga; lower Viséan. New name for *Solenopora owodenkoi* Chanton-Güvenc, 1972, p. 13, fig. 1, 3.
- PSEUDOSPHEENOPHYTON** Baxter, 1975  
*Pseudosphenophyton höegii* Baxter, 1975, p. 31, 4 figs.; whorled leaves, Sphenophyta; Pyramid coal mine, Perry County, Illinois, U.S.A.; Pennsylvanian. ING
- PSEUDOSYCIDIUM** Karpinsky, 1932  
*Pseudosycidium* Karpinsky, A. P. ex Hackquaert, A. L., 1932, Bull. Mus. Roy. Hist. Nat. Belgique, v. 8, no. 30, p. 10, figs. 5, 7; Charophyceae; Turkestan Mountain, U.S.S.R.; Silurian. ING
- PSEUDOTIELENGELLA** Liang and Tsao, 1974  
*Pseudotielengella chihshienensis* Liang and Tsao, 1974, p. 14, pl. 6, fig. 6; alga, Corallinaceae; China; Sinian.
- PSEUDOVERMIPORELLA** Elliott, 1958  
*Pseudovermiporella sodalica* Elliott, 1958, p. 419, pl. 1, figs. 1-6; pl. 2, figs. 2-6; pl. 3, figs. 1-4, 7; Dasycladaceae; Jebel Qamar, Oman; Permian. ING
- PTEROSPERMOPHYLLUM** Rasky, 1962  
*Pterospermophyllum hornafrantzenii* Rasky, K., 1962, Ann. Hist. Nat. Mus. Natl. Hung., v. 54, p. 40; leaf, Sterculiaceae; Budapest-Obuda, Hungary; upper Eocene. ING
- PTYCHODENDRON** Chachlov, 1940  
*\*Ptychodendron batojense* Chachlov, 1940, p. 511; stems, Lycopodiopsida; river Batoy near Krasnoyarsk, U.S.S.R.; Upper Devonian.
- PUERTOLLANIA** Remy and Remy, 1975  
*Puertollania sporangiotrobifera* Remy and Remy, 1975, p. 20-27, pl. 3, figs. 8-11; stem fragment, incertae sedis; Puertollano, Spain; Upper Carboniferous.
- PYCNOTSTROMA** Güruch, 1906  
*Pycnostroma densius* Güruch, 1906, p. 39, pl. 4, figs. 1-2; pl. 5, figs. 1-2; pl. 20, fig. 1; stromatolite, Cyanophyceae; Namur,



- Belgium; Lower Carboniferous. ING  
**PYTYS** Endlicher, 1837  
*\*Pytys* Endlicher, 1837, Gen., p. 263; foliage, cones, Coniferae; Europe; Tertiary. ING

Q

- QUASIUMBELLA** Pojarkov, 1965  
*Quasiumbella rotunda* (Bykova) Pojarkov, 1965, p. 730, fig. 3; algae, Umbellaceae; Uryupansk District, U.S.S.R.; Upper Devonian, Famennian. New name for *Umbella rotunda* Bykova, in Bykova and Polenova, 1955, p. 44, pl. 2, figs. 8-9; pl. 15, figs. 8-9. ING  
**QUERCOPTERIS** Chachlov, 1948  
*\*Quercopteris sibirica* Chachlov, 1948, Trudy Tomsk. Gosud. Univ. Kujbyseva, Ser. Geol., v. 99, p. 172; leaf, incertae sedis; Kemerovskaja District, Kuznetsk Basin, U.S.S.R.; Middle Carboniferous. ING  
**QUILONIA** Jain and Gupta, 1970  
*Quilonia typica* Jain and Gupta, 1970, p. 180, pl. 1, fig. 19; fungus, Microthyriaceae; Padappakara (11 km north-east Quilon), western Ghat, India; Tertiary, Miocene.

R

- RAMSAYSPHAERA** Pflug, 1976  
*Ramsaysphaera ramses* Pflug, 1976, p. 130-168, 8 pls.; organic structures; Sheba gold mine near Barberton, Ost-Transvaal, South Africa; Precambrian.  
**RAMULINA** Thurmman, 1863  
*Ramulina minima* Thurmman, J., 1863, Neue Denkschr. Allg. Schwerz. Ges. Naturwiss., v. 20, no. 1, p. 448, pl. 62, fig. 17; algae; Jura Bernois, Switzerland; Upper Jurassic. ING  
**RAONTHUS** Chitaley and Patel, 1975  
*Raonthus intertrappea* Chitaley and Patel, 1975, p. 141-149, pl. 1, figs. 1-6; pl. 2, figs. 7-11; a petrified flower; Mohgaonkalan, Chhindwara District, Madhya Pradesh, India; Upper Cretaceous.  
**RECTANGULINA** Antropov, 1959  
*Rectangulina tortuosa* (Antropov) Antropov, 1959, p. 30, pl. 1, figs. 8-10; algae; near Shugurovo, Tatar, U.S.S.R.; Upper Devonian, Frasnian. New name for *Syniella tortuosa* Antropov, which was described as a foraminiferan. ING  
**RENALIA** Gensel, 1976  
*Renalia hueberi* Gensel, 1976, p. 19-37, 5 pls.; rhyniophyte (seed fern); north shore

- of Gaspé Bay, Quebec, Canada; Battery Point Formation, Gaspé Sandstone, Devonian.  
**RETUSOCHARA** Grambast, 1971  
*Retusochara macrocarpa* Grambast, 1971, p. 28-32, pl. 24, figs. 1-6; pl. 25, figs. 1-12; charophyte, gyrogonite; Provence, southeastern France; Upper Cretaceous.  
**RHIZOMITES** Paradkar, 1971  
*\*Rhizomites dakshini* Paradkar, 1971, p. 15; pteridophyte axis; India; Deccan Intertrappean beds. ING  
**RHODEOPTERIDIUM** Zimmermann, 1959  
*Rhodeopteridium (Rhodea) fasciaeformis* (Presl in Sternberg) Zimmermann, 1959, p. 274, 280, 727; fernlike foliage; Uranowitz, Bohemia, Czechoslovakia; Upper Carboniferous. New name for *Rhodea* Presl in Sternberg, 1838.  
**RHODOMYRTOPHYLLUM** Rufflé and Jähnichen, 1976  
*Rhodomyrtophyllum tristanioides* Rufflé and Jähnichen, 1976, p. 307-336, pl. 51, figs. 1-4; stomata, fossil leaf; Kayna Süd, Saxony, Germany; Upper Eocene.  
**RHYMOKALON** Scheckler, 1975  
*Rhymokalon trichium* Scheckler, 1975, p. 26-37, figs. 1-35; wood, Cladoxylales; Greene County, New York, U.S.A.; Upper Devonian.  
**RIGBYA** Lacey, van Dijk, and Gordon-Gray, 1975  
*Rigbya arberioides* Lacey, van Dijk, and Gordon-Gray, 1975, p. 409-411, figs. on p. 410; fructification, incertae sedis; Mooi River district, Natal, South Africa; Upper Permian.  
**ROSTHORNIA** Unger  
*\*Rosthornia carinthiaca* Unger, 1842, Neues Jahrb. Mineral. Geognosie 1842, p. 174; wood, dicotyledon; Carinthia between Althofen and Guttaring, Austria; Upper Cretaceous. ING  
**ROTHPLETZELLA** Alan Wood, 1949  
*Rothpletzella gotlandica* (Rothpletz) Alan Wood, 1949, p. 18-19; alga, an encrusting organism, Cyanophyceae; Baltic region; Wenlock Limestone, Silurian. New name for *Sphaerocodium gotlandicum* Rothpletz, 1913, pl. 7, fig. 3. ING  
**ROWLEYA** Long, 1976  
*Rowleya trifurcata* Long, 1976, p. 467-481, 4 pls.; petrified vascular plant; Rowley tip, Burnley, Lancashire, England; Lower Coal Measures (Westphalian).

**RUGAPITES** Pant and Basu, 1977

*Rugapites spherica* Pant and Basu, 1977, p. 174, pl. 4, figs. 29-34; dispersed pollen grains; Nidpur, India; Triassic.

**RUGASPERMUM** Pant and Basu, 1977

*Rugaspermum insigne* Pant and Basu, 1977, p. 163, pl. 1, figs. 1-8; fossil seed; Nidpur, India; Triassic.

**RUGATHECA** Pant and Basu, 1977

*Rugathea nidpurensis* Pant and Basu, 1977, p. 172, pls. 3, 4, figs. 22-34; fossil synangia; Nidpur, India; Triassic.

**RUSANGEA** Lacey, van Dijk, and Gordon-Gray, 1975

*Rusangea elegans* Lacey, van Dijk, and Gordon-Gray, 1975, p. 392-394, figs. on p. 393; seed-bearing fructification, incertae sedis; Mooi River district, Natal, South Africa; Upper Permian.

## S

**SAGENOPTERIDIUM** Stanislavsku, 1976

*Sagenopteridium inaequale* Stanislavsku, 1976, p. 120-121, pl. 68, fig. 5; pl. 69; fossil leaves; Donetz Basin, U.S.S.R.; Middle Keuper.

**SAHNIOCARPON** Chitaley and Patil, 1971

*Sahniocharpon harrisii* Chitaley and Patil, 1971, p. 288-292, pls. 1-2, figs. 1-14; dicotyledonous pentalocular, septicidal fruit capsule; Mohgaon-kalan, Chhindwara District, India; Upper Cretaceous.

**SAJAKIA** Senkevitch, 1961

*Sajakia rhomboidea* Senkevitch, 1961, p. 181, pl. 31, figs. 3-5; leaf-cushions, Lepidophloiaeae; northeastern Lake Balkhash area, U.S.S.R.; Upper Devonian.

**SAKOAROTA** Appert, 1977

*Sakoarota polyangiata* Appert, 1977, p. 14-15, pl. 10, figs. 2-4; pls. 11-17; pl. 18, figs. 1-7, 9; pl. 19, fig. 4; pls. 20, 21; equisetaleae; Sakoa coal basin, southwest Madagascar; lower Gondwana.

**SALICOXYLON** Mädel-Angeliowa, 1968

\**Salicoxylon messinianum* (Pampaloni) Mädel-Angeliowa, 1968, Geol. Jahrb., v. 86, p. 454; wood, Salicaceae; Piemont, Italy; Pleistocene. New name for *Salicinium messinianum* Pampaloni. ING

**SALOPEKIELLA** Milanovic, 1965

*Salopekiella velebitana* Milanovic, 1965, p. 373, pls. 1-3; Dasycladaceae; Velebit Mountains, Yugoslavia; Middle and Upper Permian. ING

**SALOPELLA** Edwards and Richardson, 1974

*Salopella allenii* Edwards and Richardson, 1974, p. 315-318, pl. 40, figs. 2, 3; pl. 41, figs. 1-3; axes, Rhyniaceae; Newton Dingle, Shropshire, western England; Lower Devonian.

**SANDOELLA** Mamet and Roux, 1978

*Sandoella fowleri* Mamet and Roux, 1978, p. 74-75, pl. 3, fig. 2; dasycladacean alga; northernmost Tennessee, U.S.A.; lower Viséan.

**SANDREWIA** Mamay, 1975

*Sandrewia texana* Mamay, 1975, p. 81-82, pl. 1, figs. 1, 2; axes with leaves, incertae sedis; Baylor County, Texas, U.S.A.; Lower Permian.

**SANTHALEA** Maithy, 1975

*Santhalea bansloiensis* Maithy, 1975, p. 97-99, pl. 2, figs. 3-6; fossil leaves; Pachwara coal field, Santhal Pargana, Bihar, India; Raniganj(?).

**SAPINDACEAECARPUM** Andreanszky, 1959

\**Sapindaceaecarpum lunulatum* Andreanszky, G., 1959, Fl. Sarmat. Stufe Ungarn, p. 156; fruit, Sapindaceae; Balaton, Hungary; Miocene, Sarmatian. ING

**SAPORTELLA** Fucini, 1936

\**Saportella* Fucini, A., 1936, Palaeontogr. Italy, ser. 2, v. 1 (App.), p. 92; algae; Monte Pisano, Italy; Wealden. ING

**SARALINSKIA** Krasnopeeva, 1933

\**Saralinskia* Krasnopeeva, P. S., 1933, Mater. Geol. Zapadno-Sibirsk. Kraja, v. 4, p. 21; stromatolith, Phaeophyta; Saraly Mine, Kuznetsk Alatan Range, U.S.S.R.; Proterozoic Z. ING

**SARFATIELLA** Conrad and Peybernes, 1973

*Sarfatiella dubarii* Conrad and Peybernes, 1973, p. 302, pl. 1; pl. 2, figs. 1, 2; Dasycladaceae; Corbieres orientales, Aude, France; Middle Jurassic, Bajocian. ING

**SARMAELIA** Turonenko and Virskaia, 1962

*Sarmaella vesiculosa* Turonenko and Virskaia, 1962, p. 265, pl. 55, figs. 1-3; Cyanophyceae, Sarmaellaceae; Akshal River, tributary of Sarma River, pre-Baikal [Pribaikal?] area, U.S.S.R.; Precambrian, upper Sinian. ING

**SASHINIA** Meyen, 1978

*Sashinia aristovensis* Meyen, 1978, p. 304-306, pl. 2, fig. 15; short shoots, incertae sedis; near the village of Kuznetsovo, West Angaraland, U.S.S.R.; Upper Permian, upper Tatarian.

**SATPURIA** Sukh-Dev and Zeba-Bano, 1978

*Satpuria schoraensis* Sukh-Dev and Zeba-



- Bano, 1978, p. 500-502, pl. 2, figs. 11-19; pl. 3, figs. 25, 26; linear conifer leaves, affinities uncertain; near Sehora, Madhya Pradesh, India; Jabalpur Formation, Upper Jurassic and Lower Cretaceous.
- SAWDONIA** Hueber, 1971  
*Sawdonia ornata* (Dawson, 1871) Hueber, 1971, p. 641-642; a new name for *Psilophyton princeps* var. *ornatum*; stems, Zosterophyllaceae; Gaspé Bay, Canada; Devonian.
- SCALAROXYLON** Vogellehner, 1967  
*Scalaroxylon multiradiatum* Vogellehner, 1967, p. 216, pl. 20, figs. 5-8; wood, Cycadophytina; Röthenbach, Franken, Germany; Triassic, Keuper. ING
- SCHIMOXYLON** Kramer, 1974  
*Schimoxyylon dachalense* (Kräusel) Kramer, 1974, p. 24; wood, Theaceae; Egypt and Borneo, Southeast Asia; Tertiary. New name for *Ternstroemiioxylon dachalense* Kräusel, 1939, p. 91, pl. 21, figs. 1, 2.
- SCHIMPERIA** Remy and Remy, 1975  
*Schimperia binneyana* Carruth. sp. sensu Taylor, 1967, fig. 6, Remy and Remy, 1975, p. 88-90; *Calamostachys* cone; Nahe area, Germany; Middle Permian.
- SCHVEDOPTERIS** Mogucheva and Radchenko, 1973  
*Schvedopteris lobata* Mogucheva and Radchenko, in Mogucheva, 1973, p. 50-52, pl. 9, figs. 3, 4; pl. 10, figs. 1-8; ferns, (?)Schizaeaceae; left bank of the Nizhney Tunguska River, 25 km below the mouth of the Taymury River, Tunguska Basin, eastern Siberian SFSR, U.S.S.R.
- SCIADOPHYTON** Steinmann, 1928  
*Sciadophyton laxum* (Dawson) Steinmann, 1928, p. 46; incertae sedis; Canada; Lower Devonian. New name for *Annularia laxa* Dawson. ING
- SCIAROMIADELPHUS** Abramova and Abramova, 1967  
*\*Sciaromiadelphus longifolius* Abramova, A. L. and Abramova, I. I., 1967, Novosti Sist. Niz. Rast. 1967, p. 334; Musci, Amblistegiaceae. ING
- SCIRROMA** Chandra and Surange, 1977  
*Scirroma angusta* Chandra and Surange, 1977, p. 245-247, pl. 1, figs. 3-5; scale leaf; Raniganj coal field, West Bengal, India; Permian.
- SCLEROMEDULLOXYLON** Doubinger and Marguerier, 1975  
*Scleromedulloxyylon aveyronense* Doubinger and Marguerier, 1975, p. 36-37, pl. 1, figs. 1-4, 7, 8; pl. 3, figs. 2, 4-7, 9; pl. 4, figs. 1-7; pl. 5, fig. 7; gymnosper-
- mous wood; St. Afrique Basin, Aveyron Department, southern France; Permian.
- SCOLEPIAEPHYLLUM** Rasky, 1962  
*\*Scolepiaephyllum protoluzonensis* Rasky, K., 1962, Ann. Hist. Nat. Mus. Natl. Hung., v. 54, p. 42; leaves, Flacourtiaceae; Hungary; Tertiary. ING
- SCOPUS** Benecke, 1976  
*Scopus gibbosus* Benecke, 1976, p. 104-105, figs. 42-45, 55-81, 85, 94; fructification; Little Tugela River, Natal, South Africa; Upper Permian.
- SCRIBROPERELLA** Spriestersbach, 1935  
*Scribroporella socialis* Spriestersbach, 1935, p. 477; Dasycladaceae; Westfalen, West Germany; Middle Devonian. Described as belonging to the Porifera, but S. Rietschel, Senckenber. Leth., v. 47, p. 94 (1966) transferred the genus to the algae. ING
- SEARSOLIA** Pant and Bhatnagar, 1975  
*Searsolia oppositifolia* Pant and Shatnagar, 1975, p. 191-198, figs. 1-3; pls. 1, 2, figs. 1-17; coniferlike foliage; Raniganj coal field, West Bengal, India; Upper Permian.
- SELLINGIA** Lorch, 1968  
*Sellingia microloba* Lorch, 1968, p. 138, pl. 5, figs. f, d, g; pl. 7, fig. 4; fertile foliage; Schizaeaceae; Makhtesh Ramon, Israel; Jurassic. ING
- SELLIPORELLA** Sartoni and Crescenti, 1962  
*Selliporella donzellii* Sartoni and Crescenti, 1962, p. 262, pl. 43, figs. 1-5; Dasycladaceae; Italy; Bajocien and Bathonien.
- SHUGURIA** Antropov, 1950  
*Shuguria flabelliformis* Antropov, 1950, p. 30; algae, Parachabakoviaceae; near Shugurovo, Tatar, U.S.S.R.; Upper Devonian, Frasnian. Originally assigned to the algae by B. I. Chuvashov in Paleontol. Zhurn., 1965, part 2, p. 144. ING
- SENGWACARPON** Lacey, 1976  
*Sengwacarpum obscurum* Lacey, 1976, pl. 2, fig. 6; cupulate fructification; Lake Kariba, Rhodesia; Molteno.
- SENIA** Khan, 1969  
*Senia reticulata* Khan, 1969, p. 335-337, pl. 1, figs. 1-3; incertae sedis; Hinjrida Ghati north of Handapa, Dhenkanal District, Orissa, India; Raniganj Stage, Upper Permian.
- SENOTHECA** Banerjee, 1969  
*Senotheca murulidhensis* Banerjee, 1969, p. 359-360, pls. 1-3, figs. 1-17; glossopteridean fructification; Murulidih

- collieries, Bihar, India; Mohuda seam, Raniganj Stage, Upper Permian.
- SERIZIA** Bertrand-Sarfati, 1972  
*Serizia radians* Bertrand-Sarfati, 1972, p. 131-133, pl. 26, figs. 1-4; stromatolite; Serize, Atar, Mauritania, west Africa; Precambrian.
- SHANDONGOCHARA** Xinlun, 1978  
*Shandongochara decorosa* Xinlun, 1978, p. 46, pl. 21, figs. 1-7; pl. 22, figs. 1, 2; pl. 23, fig. 2; charophyte; Bohai, China; lower Tertiary. (See in Bibliography: China Ministry of Petroleum and Chemistry Industry.)
- SHARTYMOPHYCUS** Kulik, 1973  
*Shartymophycus fusus* Kulik, 1973, p. 45-46, pl. 4, figs. 2-6; alga; Shartym River, U.S.S.R.; Carboniferous.
- SHUKLANITES** Singhai, 1964  
*Shuklanites decanii* Singhai, 1964, p. 117-119, figs. 1, 2; bryophytic sporogonium; Mohgaon-kalan, Chhindwara District, India; Deccan Intertrap-  
 pean beds.
- SIBIERIELLA** Radcenko, 1955  
*\*Siberiella kosmovskii* Radcenko, G. P., 1955, in Halpin, L. L., Atlas Rudoved. Form Iskop. Fauny Fl. Zapadn. Sibiri, v. 2, p. 46; frond, Schizaeaceae; Kuznetsk Basin, U.S.S.R.; Upper Carboniferous. ING
- SIBERIOPTERIS** Chachlov, 1939  
*\*Siberiopteris dichotoma* (Neuburg) Chachlov, V. A., 1939, Trudy Tomsk Gosud Univ. Kujbyseva, Ser. Geol., v. 96, p. 8; Filicinae; Scerbinovskoe coal mine, Kemerovo District, Kuznetsk Basin, U.S.S.R.; Carboniferous and Permian. New name for *Neuropteris dichotoma* Neuburg. ING
- SICHOTAEALINOPTERIS** Ablajev, 1974  
*Sichotaealinopteris acuminatus* Ablajev, 1974, p. 58, pl. 1, figs. 16-18; foliage, Plypodiopsida; Ustinovska, Premorskii Krai, U.S.S.R.; Danian. ING
- SINOCAPSA** Vologdin, 1958  
*Sinocapsa honanica* Vologdin, 1958, p. 26-27, pl. 4, figs. 1-2; alga, Cyanophyceae; Honan, China; Cambrian.
- SINOPHYLLUM** Sze and Lee  
*Sinophyllum sunii* Sze, H. C., and Lee, H. H., Palaeontol. Sin. Ser. A, ser. 2, v. 3, p. 12, 32; leaf, incertae sedis; I-Ping-Chang, Pahsien, China; Jurassic. ING
- SIPHONOPHYCUS** Schopf, 1968  
*Siphonophycus kestron* Schopf, 1968, p. 671, pl. 80, figs. 1-3; "alga," Oscillatoriaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.
- SKOKIA** Radcenko and Tarasova, 1969  
*\*Skokia crassa* Radcenko, G. P. and Tarasova, N. M., 1969, in Suhov, S. V., Trudy Sibirsk. Nauk Inst. Geol. Geofiz. Mineral. Syr'ja, v. 64, p. 170; seeds, Gymnospermae; Kuznetsk Basin, U.S.S.R.; Permian. ING
- SOLENOBRASILIOXYLON** Mussa, 1978  
*Solenobrasilioxylon irinei* Mussa, 1978, p. 122-126, pl. 2, figs. 6-10; wood; Pedreira de calcario de Porangaba, Est. São Paulo, Brazil; Irati Formation, Passa Dois Group.
- SOLENOMERIS** Douville, 1924  
*Solenomeris o'gormanii* Douville, 1924, p. 169-170, 5 figs.; calcareous algae; Province of Béarn, France; lower Eocene.
- SORBITES** Philippova, 1978  
*Sorbites asiatica* Philippova, 1978, p. 127-128, pl. 10, illus. 3, 4; fossil leaves, Rosaceae; Chukotskaya River, north-eastern U.S.S.R.; Cenomanian.
- SOROSPORONITES** Mu Xinan, 1977  
*Sorosporonites parasiticus* Mu Xinan, 1977, p. 152, pl. 1, fig. 8; pl. 2, figs. 3-7; fossil fungi; Anshun of Guizhou, China; Upper Permian.
- SOSNOVIA** Stepanova, 1972  
*Sosnovia filaris* Stepanova, 1972, p. 68-69, pl. 1, figs. 1-3; algae, cyanophyta; Sosnovaya Mountain in the Batenev Ridge and Tuva, Altai-Sayan District, U.S.S.R.; Lower Cambrian.
- SPHAEROCONGREGUS** Moorman, 1974  
*Sphaerocongregus variabilis* Moorman, 1974, p. 529-536, pls. 1, 2, 3; algae, Cyanophyceae; Banff Park, Alberta, Canada; upper Precambrian. ING
- SPHAEROPHYCUS** Schopf, 1968  
*Sphaerophycus parvum* Schopf, 1968, p. 672, pl. 80, figs. 4-10; "alga," Chroococaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.
- SPHAGNOPHYLLITES** Pant and Basu, 1978  
*Sphagnophyllites triassicus* Pant and Basu, 1978, p. 346-347, pl. 2, figs. 11-13; pl. 3, figs. 14-17; bryophyte; Nidpur, Sidhi District, Madhya Pradesh, India; Triassic, middle Gondwana.
- SPINASPHAERA** Kar and Saxena, 1974  
*Spinasphaera robusta* Kar and Saxena, 1974, p. 4-5, pl. 1, figs. 7-10; alga, microplankton; Kutch, India;



- Matanomadh Formation, Paleocene.  
**SPINUMBELLA** Platonov, 1974  
*Spinumbella spinifera* Platonov, 1974, p. 102-103, pl. 9, illus. 18, 19; charophyte, Umbellaceae; Pechora Basin, U.S.S.R.; upper Famennian.
- SPIRIAMPHORELLA** Borza and Samuel, 1977  
*Spiriamphorella carpathica* Borza and Samuel, 1977, p. 110-118, pl. 3, figs. 1-5; incertae sedis; the Stratenska Hornatina [Mountains], Czechoslovakia; the Tisovec limestones, Karnic, Upper Triassic.
- SPIROPITYS** Goeppert, 1850  
*\*Spiropitys zobelliana* Goeppert, H. R., 1850, Naturk. Verh. Holl. Maatsch. Wetensch. Haarlem, ser. 2, v. 6, p. 246; wood, Coniferae; central Europe; Tertiary. ING
- SPIROXYLON** Walton, 1925  
*Spiroxylon africanum* Walton, 1925, p. 18, pl. 2, fig. 12; pl. 3, figs. 15, 16; fossil wood, araucarian in character; Arms Fontein [probably should be Harmsfontein], South Africa; horizon unknown of Karroo System.
- SQUAMELLA** White, 1978  
*Squamella australis* (White) White, 1978, p. 475-480, figs. 3-9, 14-25; fossil cone of *Glossopteris*; Flagstaff Hill, Newcasttle, Australia; Upper Permian. New name for *Lidgettonia australis* White, 1964, pl. 22, figs. 1-5.
- SQUAMOPHYLLUM** Radcenko, 1934  
*\*Squamophyllum actaeonelloides* (Geinitz) Radcenko, G. P., 1934, Mater. Geol. Zapadno-Sibirsk Kraja, v. 13, p. 35; leaf, Cordaitales; Meretskaya, Kuznetzk, western Siberia, U.S.S.R.; Upper Permian. New name for *Trigonocarpus actaeonelloides* Geinitz. ING
- STAUROXYLON** Galtier, 1970  
*Stauroxylon bekkii* Galtier, 1970, p. 170-177, figs. 66-72; pterophytes, incertae sedis; St. Nazaire de Laderez, France; Lower Carboniferous.
- STEPHANOSTACHYS** Neuberg ex Meyen, 1964  
*Stephanostachys borealis* Neuberg ex Meyen, 1964, p. 64, pl. 31, fig. 2; stems with sporophylls, Calamitaceae; Verhnesyrjanskoe Mine, Pechora River basin, Komi, U.S.S.R.; Lower Permian. ING
- STICHOSTROMIUM** Reinsch, 1881  
*\*Stichostromium* Reinsch, P. F., 1881, Neue Untersuch Mikrostruktur Steinkohle, p. 56; incertae sedis; Saxony and Bohemia and England; Carboniferous. ING
- STOLOPHYTON** Stepanov, 1975  
*Stolophyton acyclicus* Stepanov, 1975, p. 79, pl. 2, figs. 1, 2, 4, 5; incertae sedis; outskirts of Kutnetzk Basin, U.S.S.R.; Devonian.
- STOMIOPELLTITES** Alvin and Muir, 1970  
*Stomiopellittes cretacea* Alvin, K. L. and Muir, M. D., 1970, Biol. Jour. Linn. Soc., v. 2, p. 56; mycelium with thyrothecia, Micropellaceae; Hanover Point, Isle of Wight, England; Wealden. ING
- STRATICONOPHYTON** Hofmann, 1978  
*Straticonophyton* icon Hofmann, 1978, p. 579-582, figs. 11-15; stromatolite; 50 km northeast of Chibougamau, Quebec, Canada; lower part of Albenel Formation, Mistassini Group, Precambrian.
- STRIGILLOTHECA**, 1974  
*Strigillotheca fasciculata*, 1974, p. 167, pl. 129, figs. 5-7; leaflets, Coniferae; China; Carboniferous. In Paleozoic plants of China: Nanking Inst. Geol. and Palaeont., 1974 (in Chinese).
- STROBILIFER** Weigelt, 1928  
*Strobilifer frumentarius* Weigelt, 1928, p. 553, pl. 30, figs. 13, 14; Coniferae; Gera, Germany; Permian. ING
- STROBILCHARA** Grambast, 1974  
*Strobilochara viallardi* Grambast, 1974, p. 72-73, pl. 2, figs. 1-6; charophyte; Calderón, au nord de Valera de Arriba, Spain; Maastrichtian.
- STROMATOCERIUM** Seely, 1904  
*Stromatocerium rugosum* Seely, 1904, p. 144, pl. 70; coral or alga; Isle La Motte, Vermont, U.S.A.; Ordovician, Black River Limestone. This genus was originally described by James Hall in Paleontology of New York, v. 1, p. 48, pl. 12. ING
- STYRACOXYLON** Van der Burgh, 1978  
*Styracoxylon rhenanum* Van der Burgh, 1978, p. 245-246, pl. 10, figs. 1-7; fossil wood, Styracaceae; North Rhine-Westphalia, Netherlands; Pliocene.
- SUBLEPIDODENDRON** Hirmer, 1972  
*Sublepidodendron mirabile* (Nathorst) Hirmer, 1927, p. 204; stems, Lepidodendraceae; Camp Miller, Spitsbergen; Carboniferous. New name for *Lepidodendron mirabile* Nathorst, 1920, p. 25, pl. 3, figs. 11a, 12a. ING
- SUGOIA** Samylin, 1976  
*Sugovia opposita* Samylin, 1976, p. 89-90, pl. 47, figs. 9, 10; fossil angiospermous leaves, Celastraceae; Omsukchan, Magadan District, U.S.S.R.; Cretaceous.



*SULLITHECA* Stidd, Leisman, and Phillips, 1977

*Sullitheca dactylifera* Stidd, Leisman, and Phillips, 1977, p. 994-1002, 35 figs.; medullosan pollen organ; near Cayuga, Fountain County, Indiana, U.S.A.; Staunton Formation, Middle Pennsylvania.

*SUTUROVAGINA* Chow and Tsao, 1977

*Suturovagina intermedia* Chow Tseyen and Tsao Chengyao, 1977, p. 167, pl. 2, figs. 1-14; conifer; east China; Cretaceous.

*SYLYCOSTROBUS* Krassilov, 1978

*Synlycostrobos tyrmensis* Krassilov, 1978, p. 18-19, pl. 2, figs. 15-30; pl. 3, figs. 31-36; leafy shoots, cuticles, strobili, spores; Tyrma River near Alanap, Amur, Siberia, U.S.S.R.; Upper Jurassic or Lower Cretaceous (Tithonian or Berriasian).

*SYZYGIOXYLON* Kramer, 1974

*Syzgioxylon bataviae* Kramer, 1974, p. 144-152, pl. 30, figs. 137, 138; pl. 31, figs. 139, 140, 142-144, 146; fossil wood, Myrtaceae; West-Java; Tertiary.

*SZEELLA* Vologdin, 1958

*Szeella ordosica* Vologdin, 1958, p. 29, pl. 9, figs. 1-2; pl. 10, figs. 1-2; alga, Szeellaceae; West Ordos, Inner Mongolia; Cambrian.

## T

*TAENIOPITYS* Kräusel, 1962

*Taeniopitys scotti* Kräusel, 1962, p. 133-138, pl. 25, figs. 1-8; pl. 26, figs. 9-15; pl. 28, fig. 22; fossil wood; South Victoria Land, Antarctica; Carboniferous and Permian.

*TAIMYRIA* Chachlov, 1964

\**Taimyria longifolia* Chachlov, V. A., 1964, Mater. Geol. Polezn. Zapadn. Sibiri, p. 114; branches with leaves, incertae sedis; Kajerkansko coal mine, Norilsk coal basin, northern Siberia, U.S.S.R.; Upper Carboniferous. ING

*TAJMYROPTERIS* Schwedov, 1950

\**Tajmyropteris parchanovii* Schwedov, 1950; fern foliage; Permian. Noticed in Radcyenko, 1961, Permskaia flora severa Eniseisko-Tenskogo kraia Nauchno-issled. Inst. Geol. Arktiki, Trudy, v. 103, p. 83, pl. 20, fig. 1; pl. 21, fig. 1.

*TARAVALIA* Shuyskiy, 1973

*Taravalia frutata* Shuyskiy, 1973, p. 100-101, pl. 34, figs. 1-3; algae incertae sedis; central and southern Urals, U.S.S.R.

*TARTHENIA* Drosdova, 1975

*Tarthenia rotunda* Drosdova, 1975, p. 300-303, pl. 1, figs. 1-5; alga, Protobangiophyceae; Mongolia; Lower Cambrian.

*TAURIDIUM* Güvenc, 1966

*Tauridium cuvillieri* Güvenc, 1966, p. 45-47, pl. 2, figs. 1-4; alga, Codiaceae; Taurus occidentaux, Turkey; Upper Permian.

*TAVDENIA* Dorofeev, 1974

\**Tavdenia sibirica* Dorofeev, V. I., 1974, Iskopaemye Cvetkovye Rast. U.S.S.R.; seed Nymphaeaceae; Belojarka, Vaskova, western Siberia, U.S.S.R.; Oligocene. ING

*TAXOCLADUS* Vassilevskaya, 1959

*Taxocladus tschetschumensis* Vassilevskaya, N. D., 1959, Sborn. Statej. Paleontol. Biostratigr., v. 15, p. 76, pl. 11, figs. 1-5; stem with leaves, Taxaceae; Cecuma River, Lena River basin, eastern Siberia, U.S.S.R.; Upper Jurassic. ING

*TCHIHALCHEWIA* Unger, 1863

\**Tchihalchewia byzantina* Unger, F.A.A.N., 1863, Compte Rend. Hebd. Seances Acad. Sci., v. 56, p. 516; wood, incertae sedis; Lake Derkos, Thrace, Turkey; Tertiary. ING

*TCHUCOTOPTERIS* Vassilevskaja, 1977

*Tchucotopteris ustinovii* Vassilevskaja, 1977, p. 252-254, pl. 12, illus. 1-4; fossil pinnate leaves, Pteridaceae; Chukotka, vicinity of Kresta Bay, upper reaches of the Nyrvakintoveyen River, U.S.S.R.; Lower Cretaceous, Albanian.

*TELEMACHUS* Anderson, 1978

*Telemachus elongatus* Anderson, 1978, p. 61-62, pl. 2, figs. 1-15; pl. 3, figs. 1-9; pl. 6, figs. 1-3; pl. 7, figs. 1-5; cones, Coniferales; Telemachus Spruit, South Africa; Molteno Formation, Upper Triassic.

*TENUOFILUM* Schopf, 1968

*Tenuofilum septatum* Schopf, 1968, p. 679, pl. 86, figs. 10-12; incertae sedis, "alga," Oscillatoriaceae; 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.

*TETORIA* Kimura and Sekido, 1974

*Tetoria endoi* Kimura and Sekido, 1974, p. 23-26, figs. 1-6, pls. 1-3; bipinnate cycadean leaves; upper course of the Makkodani, a tributary of the Tetori, Ishikawa Prefecture, Japan; Lower Cretaceous.

*TETRACOCOPORIUM* Biradar and Mahabale, 1972

- Tetracoccusporium eocenum* Biradar and Mahabalé, 1972, p. 223-226, 1 pl.; fossil fungus; Mohgaon-kalan, Chhindwara District, India; Deccan Intertrappean series, Eocene.
- TETTRAGONUS** Eichwald, 1842
- \**Tetragonus munchisonii* Eichwald, C. E. von, 1842, Urivelt Russlands, v. 2, p. 81; incertae sedis; U.S.S.R. ING
- THAIPORELLA** Endo, 1966
- Thaiporella kobayashii* Endo, 1966, p. 171-172, pl. 7, fig. 3; algae, Rhodophycophyta; Doi Chang Hill, northern Thailand; Upper Ordovician or Lower Silurian.
- THIBIA** Shuyskiy, 1973
- Thibia proninae* Shuyskiy, 1973, p. 22-23, pl. 3, figs. 1-6; green algae, Dasycladaceae; western slopes of the central Urals, U.S.S.R.; Lower Devonian.
- THOMASLESIA** Le Roux, 1975
- Thomaslesia vereeniniensis* Le Roux, 1975, p. 31-35, figs. 1, 2; sterile vegetative frond; Vereeniging, Transvaal, South Africa; Lower Permian.
- THUCHOMYCES** Hallbauer and Jahns, 1977
- Thuchomyces lichenoides* Hallbauer and Jahns, 1977, p. 488, figs. 3-14, 24, 28-29; fossil plant of algal origin; Carletonville, South Africa; Precambrian.
- THYSANOPLANTA** Vologdin and Tilorenko, 1966
- Thysanoplanta filamentosa* Vologdin and Tilorenko, 1966, p. 1438, figs. 2f, 4B, 6; Cyanophyceae, Thysanoplantaceae; Kurtun River, pre-Baikal [Pribaikal?] area, U.S.S.R.; Upper Precambrian. ING
- TIANZHUSHANIA** Yin and Li, 1978
- Tianzhushania spinosa* Yin and Li, 1978, p. 95, pl. 8, fig. 13; algae incertae sedis; southwest China; Precambrian.
- TIELINGELLA** Liang and Tsao, 1974
- Tielingella tielingensis* Liang and Tsao, 1974, p. 13-14, pl. 6, figs. 3-4; alga, Corallinaceae; China; Sinian.
- TIFOUNKEIA** Bertrand-Sarfati, 1972
- Tifounkeia ramificata* Bertrand-Sarfati, J., 1972, p. 135, pl. 27, figs. 1-4; stromatolite; Tifounke, Atar, Mauritania, West Africa; upper Precambrian.
- TIMANOPHYTON** Senkevitch, 1959
- \**Timanophyton lorum* Senkevitch, 1959, Devon. sup. Timan, p. 116-119, pl. 2, fig. 4; Filicophyta, incertae sedis; Timan, U.S.S.R.; Upper Devonian.
- TIRASOPHYTON** Istchenko, 1974
- Tirasophyton europaeum* (Istchenko) Istchenko, 1974, p. 104-108, pl. 10, figs. 1-8; fossil stems with seedlike appendages; Podolia, southwest Ukrainian SSR, U.S.S.R.; Lower Devonian. New name for *Tomiphyton europaeum* Istchenko, 1968, p. 102, pl. 21, figs. 6-9.
- TOLYPORELLA** Saidakovsky, 1960
- Tolyporella globosa* Saidakovsky, 1960, Biostratirafi una skhema nizhnobogo Triasu Dnilrovskko-Donelsbokoi Zaladini, Geologiniy Zhurnal an U.S.S.R., v. 20, no. 6, p. 50-57, pl. 1, fig. 4a.
- TOMIELLA** Chachlov, 1939
- \**Tomielia prostrata* Chachlov, V. A., 1939, Trudy Tomsk. Gosud Univ. Kujbys., Ser. Geol. v. 96, p. 9; leaf, Filicinae; Staraja Balahonka, Kemerovo District, Kuznetsk Basin, U.S.S.R.; Carboniferous and Permian. ING
- TORREYOXYLON** Greguss, 1967
- Torreoyoxylon boureaui* Greguss, 1967, p. 44, pl. 32, figs. 1-11; wood, Cephalotaxaceae; Utkut, Hungary; Cretaceous, Aptian. ING
- TORMENTELLA** Pflug, 1966
- Tormentella tubiformis* Pflug, 1966, p. 67-68, pl. 29, fig. 44; fungi; Clark Fork Quadrangle, Idaho-Montana, U.S.A.; Precambrian.
- TORTOFIMBRIA** Tsao and Zhao, 1974
- Tortofimbria dictyotos* Tsao and Zhao, 1974, p. 72, pl. 13, fig. 1; Cyanophyta; China; Sinian. Noticed in Cao Ruiji and Zhao Wenjie, 1978, p. 16.
- TRIBOLITES** Bradley, 1964
- Tribolites tetrastonyx* Bradley, W. H., 1964, Am. Jour. Sci., v. 262, p. 413, figs. 1-2; fungi, Hyphomycetes; Sweetwater County, Wyoming, U.S.A.; Green River Formation. ING
- TRIRADIOXYLON** Barnard and Long, 1975
- Triradioxylon primaevum* Barnard and Long, 1975, p. 232-236, 238, pl. 1, figs. 1-8; pl. 2, figs. 9-18; pl. 3, figs. 19-25; pl. 4, figs. 30, 32-34; petrified stems and petioles, Buteoxylonaceae, incertae sedis; Oxroad Bay, East Lothian and Berwickshire, Scotland; Lower Carboniferous.
- TRIPLOSPORITE** Brown, 1848
- \**Triplosporite* Brown, R., 1848, Proc. Linn. Soc., London, v. 1, p. 345; strobilus, Lepidophyta; Carboniferous. ING
- TRISACOCCLADUS** Archangelsky, 1966
- Trisacocladus tigrensii* Archangelsky, 1966, p. 276-282, pl. 4, fig. 21; pl. 5, figs. 22-39; pl. 8, figs. 56-57; leafy shoots with male cones attached

- Podocarpaceae; Estancia Baja Tigre, Santa Cruz Province, Argentina; Lower Cretaceous. ING
- TRITHECOPTERIS** Pant and Misra, 1977  
*Trithecopteris gondwanensis* Pant and Misra, 1977, p. 79-83, pl. 3, figs. 1-6; pl. 4, figs. 1-11; pectopterid leaves; Raniganj coal field, West Bengal, India; Raniganj Stage, Lower Gondwana.
- TROCHODENDROCARPUS** Kristofovic, 1958  
*\*Trochodendrocarpus arcticus* (Heer) Kristofovic, A. N., 1958, Trudy Bot. Inst. Kamarova Akad. Nauk U.S.S.R., ser. 8, Paleobot., v. 3, p. 113; fruit, Trochodendrales; Atanekerdruk, Greenland; Paleocene. New name for *Nyssa arctica* Heer. ING
- TUBULITES** Bein, 1932  
*Tubulites articulatus* Bein, 1932, p. 798, pl. 27, figs. 3-4; algae; upper Zechstein Limestone.
- TUDOVAKIA** Schorochova and Krassilov, 1970  
*\*Tudovakia papillosa* Schorochova, S. A. and Krassilov, V. A., 1970, Trias. Bespozv. Rast. Vostoka U.S.S.R., p. 108; leaf, Pteridospermae; Malinovo, Iman River basin, Premorski Territory, U.S.S.R.; Upper Triassic. ING
- TUMIELLA** Levedeva, 1940  
*\*Tumiella originalis* Levedeva, A. G., 1940, Trudy Nauk Konf. Izuc. Osvoenie Proizv. Sibiri, v. 2, p. 352; leaf, Filicinae; Atamanova, river Chulym, Minusinskaya Lowland, U.S.S.R.; Jurassic. ING
- TUNGUSSKIA** Chachlov, 1940  
*\*Tungusskia longifolia* Chachlov, V. A., 1940, Trudy Nauk Konf. Izuc. Osvoenie Proizv. Sibiri, v. 2, p. 184; leaves, incertae sedis; Bugarihta, Lower Tunguska River, U.S.S.R.; Upper Carboniferous. ING
- TURBOCHARA** Wang Zhen, 1978  
*Turbochara specialis* Wang Zhen, 1978, p. 78, pl. 6, figs. 1-9; charophyte; Yangtze-Han River basin, China; Cretaceous.
- TURMIA** Brik, 1952  
*Turmia angustiloba* Brik, M. I. ex Sixtel, T. A., 1952, Trudy Inst. Geol. Akad. Nauk Tadzhiksk. U.S.S.R., v. 2, p. 37; leaf, Bennettiales; Fam-Jagnob coal mine, Tadzhikistan, U.S.S.R.; Jurassic. ING
- TURUCHANICA** Rudavskaja, 1964  
*Turuchanica alara* Rudavskaja, 1964. Noticed in Timofeev, 1969, Sferomorfidy proterozoya, p. 19.
- TYRASOTAENIA** Gnilovskaja, 1971  
*Tyrasotaenia podolica* Gnilovskaja, 1971, pl. 11, illus. 1-5; alga; Dniester region of Podolia and Moldavia, U.S.S.R.; upper Precambrian. ING
- U
- UCSUNAJPHYTON** Stepanov, 1975  
*Ucsunajphyton ananievi* Stepanov, 1975, p. 80, pl. 1, fig. 1; incertae sedis; outskirts of Kuznetsk Basin, U.S.S.R.; Devonian.
- UMBELLA** Maslov, 1955  
*\*Umbella bella* Maslov, V. P., 1955, Trudy Vsesojuzn. Neft. Nauk Geologorazved Inst. (VNIGRI) ser. 2, v. 87, p. 37; Charophyceae, Umbellaceae; Voronezh region, U.S.S.R.; Devonian. ING
- UNCATOELLA** Xing-Xue and Chong-Yang, 1978  
*Uncatoella verticillata* Xing-Xue and Chong-Yang, 1978, p. 9, pl. 1, figs. 3-7; algae incertae sedis; eastern Yunnan, southwest China; Lower Devonian.
- UNELLA** Poncet, 1974  
*Unella roquellensis* Poncet, 1974, p. 78-80, pl. 15, figs. 1-6; alga, Dasycladaceae; Roquette (Beaubigny hamlet), Manche, Armorica Massif, western France; Lower Devonian.
- URAIMELLA** Chuvashov, 1973  
*Uraimella incognita* Chuvashov, 1973, p. 32-33, pl. 3, figs. 1-6; algae, Corallinaceae; western slopes of the central and southern Urals, U.S.S.R.; Upper Devonian.
- URALIA** Tchirkova-Zaleskaia, 1957  
*\*Uralia bella* Tchirkova-Zaleskaia, 1957, p. 86, figs. 77-79; pl. 6, figs. 29-31; pl. 25, figs. 125-126; stems; Severokamsk, U.S.S.R.; Devonian.
- URALITES** Chuvashov, 1973  
*Uralites regularis* Chuvashov, 1973, p. 30-31, pl. 2, figs. 1-5; algae, Ungdarellaceae; western slopes of the central and southern Urals, eastern slope of the southern Urals, U.S.S.R.; Lower Devonian.
- URNULINELLA** Borza and Samuel, 1977  
*Urnulinella andruevi* Borza and Samuel, 1977, p. 118-119, pl. 7, figs. 1-6; incertae sedis; the Stratsenska Hornatina [Mountains], Czechoslovakia; Tisovec Limestone, Karnic, Upper Triassic.
- USHIA** Kolakovski, 1965  
*Ushia kamyschinensis* (Goeppert) Kolakovski, 1965, p. 127-132, pl. 12, figs. 1-4; pl. 13, figs. 1-8; Kamyshin; Paleocene. New name for *Phyllites kamyschinensis* Goeppert, 1845, in Murchison, 1845, p. 502, pl. G, fig. 1.



**USSURIOCLADUS** Krysshtofovich and Prynada, 1932

\**Ussuriocladus racema* (Halle) Krysshtofovich and Prynada, 1932, Materialy Mezozoyskoy flore Ussiryskogo Kraya—Izv. Vses. Geop.-razved. Obep, 2, vyp. 28.

**USSURITHYRITES** Krasilov, 1967

*Ussurithyrites araucariodendri* Krasilov, 1967, p. 94, pl. 2, figs. 1-3; fungi, Ascomycetae; Krestljanka River, Siyfunsky Basin, U.S.S.R.; Lower Cretaceous. ING

V

**VAGINOPORA** Defrance, 1830

\**Vaginopora fragilis* Defrance, J. L. M. ex Blainville, H. M. D. de, 1830, Dict. Sci. Nat'l. (Levrault), v. 60, p. 405; Dasycladaceae; Parnes, Oise, France; Eocene, Lutetian. ING

**VARICAMANICOSIPHONIA** Cao Ruiji and Zhao Wenjie, 1978

*Varicamanicosiphonia quadricella* Cao Ruiji and Zhao Wenjie, 1978, p. 36-37, pl. 1, fig. 5; pl. 2, fig. 5; pl. 3, fig. 2; fossil alga; southwest China; Sinian.

**VELENOVSKIA** Knobloch, 1974

*Velenovskia opatovicensis* Knobloch, 1974, p. 171-173, pl. 1; leaf, incertae sedis; Velké Opatovice, 48 km north of Brno, Moravia, Czechoslovakia; Cenomanian.

**VENUSTROSTROBUS** Chandra and Surange, 1977

*Venustrostrobis diademus* Chandra and Surange, 1977, p. 137-140, text-fig. 10A, B; female reproductive organ; Selected Jambad colliery, Raniganj coal field, West Bengal, India; Raniganj Stage, Permian.

**VERMICULUS** Bertrand-Sarfati, 1972

*Vermiculus contortus* Bertrand-Sarfati, 1972, p. 163-166, pl. 9, figs. 1-5; problematica; Passe de Serize, Atar, Mauritania, Africa; upper Precambrian.

**VERTEXA** Semikhatov, 1978

*Vertexa termina* Semikhatov, 1978, p. 143-145, pl. 23, fig. 4; pl. 24, figs. 1-4; stromatolite; Canadian Shield; Aphebian.

**VERTICILLODESMIS** Dragastan and Misnik, 1975

*Verticillodesmis clavaeformis* Dragastan and Misik, 1975, p. 215-220, pl. 1, figs. 1-4; algae, Valoniaceae; Vrsatec, Czechoslovakia; Upper Jurassic.

**VESICAMASSULATHUS** Stepanova, 1972

*Vesicamassulatus compositus* Stepanova,

1972, p. 69, pl. 1, figs. 4, 5; microphytolite; Srednyaya Mountain, Batenev Ridge, Altai-Sayan District, U.S.S.R.; upper Precambrian.

**VETELLA** Krylov, 1967

*Vetella uschbasica* Krylov, 1967; stromatolite; Lower Cambrian. Noticed in Schmitt, Michael, 1979, New stromatolites from the upper Precambrian of the Anti-Atlas and from the Lower Cambrian of the High Atlas, Morocco; Senckenbergiana lethaea, v. 60, nos. 1-3, p. 43.

**VETERONOSTOCAL** Schopf and Blacic, 1971

*Veteronostocale amoenum* Schopf and Blacic, 1971, p. 950-951, pl. 107, fig. 4; pl. 108, figs. 1, 2; alga; Ellery Gorge, 80 km west of Alice Springs, Northern Territory, Australia; Precambrian.

**VITEOCOXYLON** Lemoigne, 1978

*Viteocoxylon aethiopicum* Lemoigne, 1978, p. 137, pl. 3, figs. 5-8; fossil wood, Verbenaceae; Welkite region, Ethiopia; Miocene.

**VITIMIA** Vachrameev and Kotova, 1977

*Vitimia doludenkoi* Vachrameev and Kotova, 1977, p. 490-492, pl. 11, illus. 1-5; fossil leaf, Bennettiales; northwest Transbaikalia, left bank of Vitim River, above the mouth of the Baysa River, U.S.S.R.; Lower Cretaceous, upper part of Zazaizn suite.

**VITTAEPHYLLUM** Dobruskina, 1975

*Vittaephyllum hirsutum* Dobruskina, 1975, p. 127-130, pl. 12, figs. 1, 2, 5; leaves; southern Fergana, U.S.S.R.; Upper Permian and Lower Triassic. New name for *Aipteris hirsuta* Sixel, 1962, p. 320-323, pl. 10, fig. 1, pl. 11, figs. 1-5.

**VLADIMIRIELLA** Saidakovsky, 1971

\**Vladimiriella globosa* (Saidakovsky) Saidakovsky, 1971, Geol. Zhurn., v. 31, no. 3, p. 122; Charophyceae; Sumy region, Ukraine, U.S.S.R.; Lower Triassic. New name for *Tolypella globosa* Saidakovsky and figured in Saidakovsky, 1960. ING

**VOLVOXIMORPHITES** Yin and Li, 1978

*Volvoximorphites gregarius* Yin and Li, 1978, p. 90, pl. 7, figs. 1-2; Volvocaceae?; southwest China; Precambrian.

W

**WARDENSHEPPEYA** Eyde, 1970

*Wardensheppeya davisii* (Chandler) Eyde, 1970, p. 650; endocarp, Menispermaceae.

maceae; Sheppey, Kent, England; Eocene. New name for *Wardenia davisii*, Chandler, 1961, p. 158, pl. 16, fig. 8. ING

#### WARDIAPHYLLUM Hickey, 1977

*Wardiaphyllum daturaefolium* (Ward) Hickey, 1977, p. 150, pl. 52; pl. 53, figs. 1, 2; fossil leaves; below Glendive, Montana, U.S.A.; Fort Union Formation, Paleocene. New name for *Credneria? daturaefolium* Ward, 1887, p. 97, pl. 42, fig. 4.

#### WEINMANNIOXYLON Petriella, 1972

*Weinmannioxylon multiperforatum* Petriella, 1972, p. 195-198, pl. 4, figs. F-I; wood, Cunoniaceae; central Chubut (Cerro Bororo), southern Argentina; Tertiary.

#### WILLSIOTROBUS Grauvogel-Stamm and Schaarschmidt, 1978

*Willsiotrobus willsii* (Townrow) Grauvogel-Stamm and Schaarschmidt, 1978, new name for *Masculostrobus willsi* Townrow, 1962, p. 25, pl. 1, figs. e, h; pl. 2, fig. i; microsporangiate fructification.

#### WOODWARDITES Goeppert, 1836

\**Woodwardites* Goeppert, H. R., 1836, Nov. Actorum Akad. Caes. Leop-Carol. Nat. Cur. 17, Suppl., p. 175; barren fronds, Filicinae; Waldenburg, Silesia, Poland. ING

### X

#### XYMALOXYLON Louvet, 1975

*Xymaloxylon zeltenense* Louvet, 1975, p. 276, pl. 2, figs. 1-5; wood, Momimiaceae; Djebel Zelten, Libya, Africa; lower Miocene. ING

### Y

#### YENTAILIA Vologdin, 1958

*Yentailia liaoyangensis* Vologdin, 1958, p. 25-26, pl. 6, figs. 1-2; pl. 7, figs. 1-3; alga, Chlorophyceae; Cambrian.

#### YUANIA Sze, 1974

*Yuania stricta* Sze, 1974, p. 64, pl. 40, figs. 4-7; pl. 41, fig. 1; stems with leaflets; China; Permian. In Paleozoic plants of China: Nanking Inst. Geol. and Palaeont., 1974 (in Chinese).

### Z

#### ZAISSANIA Romanova, 1971

*Zaissania monucoica* (Romanova) Romanova, 1971, Mater. 1st Fauny Fl. Kazahstana, v. 5, p. 113; leaf, Platanaceae; Kun-Keris Mountain, Zajsan Lake basin, Kazakhstan, U.S.S.R.; Paleocene. New name of *Populus monucoica* Romanova. ING

#### ZALESSKIOXYLON Lepekhina and Yatsenko-Khmelevsky, 1966

*Zallesskioxylon angustum* (Felix) Lepekhina and Yatsenko-Khmelevsky, 1966, p. 68; see Felix, 1882, p. 81; and Halle, 1911, p. 180-181, pl. 9, figs 8, 9; wood of pycnoxylic plant; New South Wales, Australia; Carboniferous. New name for *Dadoxylon angustum* Felix.

#### ZEAPORA Penecke, 1894

*Zeapora gracilis* Penecke, 1894, p. 60, pl. 10, fig. 11; alga, Dasycladaceae; Graz, Steiermark, Austria; Middle Devonian. ING

#### ZELKOVOXYLON Greguss, 1969

*Zelkovoxylon yatsenko-khmelevskyyi* Greguss, 1969, p. 83, pl. 75, figs. 1-9; wood, Ulmaceae; Nogradszakal, Hungary; Miocene. ING

#### ZINGIBEROPSIS Hickey, 1977

*Zingiberopsis isonervosa* Hickey, 1977, p. 115, pl. 10, fig. 2; fossil leaves, Zingiberaceae; Stark County, North Dakota, U.S.A.; Camels Butte Member, Golden Valley Formation, lower Eocene.

#### ZOSTEROSPHAERA Schopf, 1968

*Zosterosphaera tripunctata* Schopf, 1968, p. 684, pl. 84, fig. 6; incertae sedis, "alga," Pyrrophyta(?); 40 miles east-northeast of Alice Springs, Northern Territory, Australia; Bitter Springs Formation, upper Precambrian.

## BIBLIOGRAPHY

- Ablayev, A. G., 1974, Pozdenemelovaia flora Vostochnogo Siknote-Alenia i ee znachenie dlia stratigrafii: Novosibirsk, Izd. Nauka, 148 p.
- Agashe, S. N., 1977, *Prototaxopitys andrewsii*, a new combination for *Prototaxoxylon andrewsii* Agashe and Chitnis: Geophytology (Lucknow, India), v. 7, no. 2, p. 278-279.
- Aizenberg, D. E., and Braznikhova, E. V., 1966, [La faune du Tournaisien Inférieur du bassin du Donetz]: Akad. Nauk Ukrain. SSR, Inst. Geol. Nauk, p. 3-42 (in Russian).
- Alth, A. von, 1882, Die versteinerungen des Nizniower Kalksteines: Paläont. Geol. Oester.-Ung., Vienna, Beitr., v. 1, p. 183-332.
- Alvin, K. L., Spicer, R. A., and Watson, J., 1978, A Classopollis-containing male cone associated with *Pseudofrenelopsis*: Palaeontology, v. 21, pt. 4, p. 847-856.
- Anderson, H. M., 1978, *Podozamites* and associated cones and scales from the upper Triassic Molteno formation, Karoo Basin, South Africa: Palaeontologia Africana, v. 21, p. 57-77.
- Andrae, K. J., 1865-1869, Vorweltliche pflanzen aus dem stein kholengebirge der preussischen Rheinlande und Westphalens, fasc. 2: p. 19-34.
- Andreánszky, G., 1955, Contributions á la connaissance de la flore de l'Aligoiene inférieur de la Hongrie et un essai sur la reconstitution de la végétation contemporaine: Acta Botanica (Acad. Sci. Hungaricae), v. 5, p. 1-37.
- 1963, Beiträge zur kenntnis der unter-Oligozänen flora der Umgebung von Budapest: Acta Botanica (Acad. Sci. Hungaricae), v. 9, p. 227-257.
- Andrews, E. B., 1875, Description of fossil plants from the Coal Measures of Ohio: Ohio Geol. Survey Rept., v. 2, Geol. and Paleont., p. 415-426.
- Andrews, H. N., Gensel, P. G., and Forbes, W. H., 1974, An apparently heterosporous plant from the middle Devonian of New Brunswick: Palaeontology, v. 17, pt. 2, p. 387-408.
- Andrews, H. N., Gensel, P. G., and Kasper, A. E., 1975, A new fossil plant of probable intermediate affinities (Trimerophyte-Progymnosperm): Canadian Jour. Botany, v. 53, no. 16, p. 1719-1728.
- Antropov, I. A., 1955, [Blue-green algae of Devonian formations in central regions of eastern Russian Platform]: Kazansk. Gosud. Univ. Ulyanova-Lenina, Uch. Zap., v. 115, no. 8, p. 41-50.
- 1959, [Foraminifères dévoniens de Tatarie]: Akad. Nauk SSSR, Kazansk. Filial, Izv., Ser. Geol., no. 7, p. 11-33 (in Russian).
- Appert, Otto, 1973, Die Pteridophyton aus dem Oberen Jura des Manamana in südwest-Madagaskar: Schweiz, Paläont. Abh., v. 94, 62 p.
- 1977, Die *Glossopteris* flora der Sakoa in südwest-Madagaskar: Palaeontographica, Abt. B., v. 162, no. 1-3, p. 1-50.
- Archangelsky, Sergio, 1966, New gymnosperms from the Ticó flora, Santa Cruz Province, Argentina: British Mus. (Nat. History) Bulletin, Geology, v. 13, no. 5, p. 261-295.
- Awasthi, N., 1966, Fossil woods of Anacardiaceae from the Tertiary of South India: Palaeobotanist (Lucknow, India), v. 14, nos. 1-3, p. 131-143.
- 1967, Fossil wood resembling that of *Millettia* from the Tertiary of South India: Current Science (Bangalore, India), v. 36, no. 7, p. 180-181.
- 1975, On two new fossil woods resembling *Chrysophyllum* and *Holoptelea* from the Cuddalore series near Pondicherry: Palaeobotanist (Lucknow, India), v. 24, no. 1, p. 21-25.



- Bande, M. B., 1974, Two fossil woods from the Deccan Intertrappean beds of Mandla District, Madhya Pradesh: *Geophytology* (Lucknow, India), v. 4, no. 2, p. 189-195.
- Banerjee, Manju, 1969, *Senothea murulidihensis*, a new glossopteridian fructification from India, associated with *Glossopteris taeniopteroides* Feistmantel, in J. Sen Memorial Vol.: Bengal, India, J. Sen Memorial Comm. and Bot. Soc. Bengal, p. 359-368.
- Barnard, P. D. W., and Long, A. G., 1975, *Triradioxylon*—a new genus of lower Carboniferous petrified stems and petioled together with a review of the classification of early Pterophytina: Royal Soc. Edinburgh Trans., v. 69, no. 10, p. 231-249.
- Barta-Calmus, Sylvie, 1965, Dasycladacées du Lutétien de Villiers-Saint-Frédéro (Yvelines): Soc. Gol. France Bull., 7th ser., v. 7, no. 6, p. 906-910.
- Barthel, Manfred, 1976, Farne und Cycadeen: Zentral. Geol. Inst. Abh., v. 26, p. 439-498.
- Baschnagel, R. A., 1966, New fossil algae from the middle Devonian of New York: Am. Microscop. Soc. Trans., v. 85, no. 2, p. 297-302.
- Basinger, J. F., 1976, *Paleorosa similkameenensis* gen. et sp. nov., permineralized flowers (Rosaceae) from the Eocene of British Columbia: Canadian Jour. Botany, v. 54, no. 20, p. 2293-2305.
- Bassoulet, J. P., Bernier, P., Conrad, M. A., Deloffre, R., and Jaffrezo, M., 1978, Les algues Dasycladales du Jurassique et du Crétacé: Geobios, Mém. Spéc., v. 2, 330 p.
- Baxter, R. W., 1975a, *Pseudosphenophyton hœgii*: A new plant genus of Pennsylvanian age from Illinois coal balls: Phytomorphology, v. 25, no. 1, p. 31-38.
- 1975b, *Andrewopteris revoluta*, a new genus of middle Pennsylvanian ferns from Kansas coal balls: Palaeontographica, Abt. B, v. 150, pt. 5-6, p. 157-161.
- 1978, *Nataliana sinuata*, a new lycopodean genus from the middle Pennsylvanian of Iowa, U.S.A.: Palaeontographica, Abt. B, v. 165, pt. 4-6, p. 79-84.
- Beck, C. B., 1978, *Periastron reticulatum* Unger and *Aerocortex kentuckiensis* n. g. et sp. from the New Albany Shale of Kentucky: Am. Jour. Botany, v. 65, no. 2, p. 221-235.
- Bein, G., 1932, Die stellung des Richelsdorfer Gebirge zum Thüringer Walde und Rheinischen Schieferfergebirge: Geol. Gezell., Zeitsch., Deutsch., v. 84, p. 786-829.
- Benecke, A. K., 1976, Several new forms of *Glossopteris* fructifications from the Beaufort *Daptocephalus*-zone (upper Permian) of Natal, South Africa: Palaeontologia Africana, v. 19, p. 97-125.
- Berchenko, O. I., 1974 [Contribution to a study of charophyta (Umbellaceae family) in the Donbas and Dnieper-Donets depression.]: Geologicheskii Zhur., v. 34, no. 2, p. 104-116 (in Russian).
- Bernard, P. D. W., 1968, A new species of *Maculostrobis* Seward producing Classopollis pollen from the Jurassic of Iran: Linnean Soc. London Jour., Botany, v. 61, no. 384, p. 153-165.
- Berry, E. W., 1930, Revision of the lower Eocene Wilcox flora of the Southeastern States: U.S. Geol. Survey Prof. Paper 156, 196 p.
- Bertrand-Sarfati, Janine, 1972, Stromatolites columnaires du Précambrien Supérieur du Sahara Nord-Occidental: Centre Recherches Zones Arides, Sér. Geology, no. 14, 244 p.
- Bertrand-Sarfati, Janine, and Caby, Renaud, 1976, Carbonates et stromatolites du sommet du Groupe d'Eleonore Bay (Précambrien terminal) au Canning Land (Groenland oriental): Grønlands Geol. Undersøgelse Bull. 119, 51 p.
- Biradar, N. V., and Mahabalé, T. S., 1972, On the occurrence of an imperfect fungus *Tetracoccusporium* obtained from a fossil wood belonging to the Deccan Intertrappean Series, (M. P.), India: Palaeobotanist (Lucknow, India), v. 21, no. 2, p. 223-226.
- Bonet, F., 1956, Zonificación microfaunística de las Calizas Cretácicas del este de México: Internat. Geol. Cong. 20th, Mexico, 102 p.

- Borza, Karol, and Misik, Milan, 1976, *Pieninia oblonga* n. gen., n. sp. aus Kretozischen und Palaogenen Kalken der Westkarpaten: Geologicky Sborník (Geologica Carpathica), v. 27, no. 1, p. 65.
- Borza, Karol, and Samuel, Ondrej, 1977, New genera and species (incertae sedis) from the upper Triassic in the West Carpathians: Geologicky Sborník (Geologica Carpathica), v. 28, no. 1, p. 95-119.
- Bose, M. N., and Srivastava, S. C., 1970, *Glottolepis rugosa* gen. et sp. nov. from the Triassic beds of Nidpur: Palaeobotanist (Lucknow, India), v. 18, no. 2, p. 215-217.
- Boureau, Edouard, and Doubinger, Jeanne, 1975, *Traité de paléobotanique*, v. 4, no. 2, Petridophylla: Paris, 768 p.
- Brenckle, Paul, 1977, *Mametella*, a new genus of calcareous red algae(?) of Mississippian age of North America: Jour. Paleontology, v. 51, no. 2, p. 250-255.
- Brousse, Claudine, 1978, *Grambastia (Sphenopteris) goldenbergi* (Andrae) nov. comb., espèce-type d'un nouveau genre de Fougère Leptosporangée du Carbonifère: Geobios, no. 11, fasc. 2, p. 157-173.
- Brown, J. T., and Robison, C. R., 1974, *Diettertia montanensis*, gen. et sp. nov., a fossil moss from the lower Cretaceous Kootenai formation of Montana: Bot. Gaz., v. 135, no. 3, p. 170-173.
- Burago, V. I., 1977, The new combination *Ginkgophytopsis gigantea* Burago, n. comb.: Paleont. Jour. (English translation of Paleont. Zhur.), v. 11, no. 1, p. 132.
- Bykova, E. V., and Polenova, E. I., 1955, [Foraminifères et radiolaires du Dévonien de la région Volga-Oural et du champ Dévonien central, et leur signification stratigraphique]: Vses. Neft. Nauch-Issled Geol. Razv. (VNIGRI), Trudy, v. 87, p. 1-141 (in Russian).
- Cao Ruiji and Zhao Wenjie, 1978a, [The algal flora of the Tongying formation (upper Sinian system) in southwestern China]: Mem. Nanjing Inst. Geol. and Palaeontol., Acad. Sinica, no. 10, p. 1-28 (in Chinese).
- 1978b, [Manicosiphoniaceae, a new family of fossil algae from the Sinian System of SW China with reference to its systematic position]: Acta Palaeontologica Sinica, v. 17, no. 1, p. 29-38 (in Chinese).
- Chachlov, V. A., 1940, [Plant remains of the Minussinskaya suite]: Nauchn. konf. pizuchen i osvoen proizvodstsit Sibira Trudy, v. 2, p. 501-511 (in Russian).
- 1966, [Upper Devonian flora from the Krasnoyarsk region]: Nauchn. konf. izuchin i osvoen proizvodstsit Sibiri, v. 2, p. 501-508 (in Russian).
- Chandler, M. E. J., 1978, Supplement to the lower Tertiary floras of southern England: Tertiary Research Paper no. 4, 47 p.
- Chandra, Shaila, and Surange, K. R., 1974, Cuticular studies of the reproductive organs of *Glossopteris*. Part II—*Cistella* type fructification—*Plumsteadia ellipticus* gen. et sp. nov. attached on *Glossopteris taeniodes* Feistmantel: Palaeobotanist (Lucknow, India), v. 23, no. 3, p. 161-175.
- 1975, Some scale leaves and sporangia from the Raniganj coal field, India: Palaeobotanist (Lucknow, India), v. 24, no. 3, p. 245-253.
- 1977, Cuticular studies of the reproductive organs of *Glossopteris*. Part III. Two new female fructifications *Jambadostrobus* and *Venustostrobus*—borne on *Glossopteris* leaves: Palaeontographica, Abt. B, v. 164, no. 4-6, p. 127-152.
- China Ministry of Petroleum and Chemistry Industry, Institute of Petroleum Exploration, Production, and Planning, 1978, [Early Tertiary Charophytes from the coastal region of Bohai]: Beijing, Science Publishing House, 49 p. (in Chinese).
- Chitale, S. D., 1968, On *Aerorhizos harrisii* gen. et sp. nov. from India: Indian Bot. Soc. Jour., v. 47, nos. 1-2, p. 7-12.
- Chitale, S. D., and Kate, U. R., 1974, *Deccananthus savitrii*, a new petrified flower from the Deccan Intertrappean beds of India: Palaeobotanist (Lucknow, India), v. 21, no. 3, p. 317-320.

- Chitale, S. D., and Nambudiri, E. M. V., 1973, *Harrisocarpon sahni* gen. et sp. nov. from the Deccan Intertrappean beds of Mohgaon-kalan, District Chhindwara: Geophytology (Lucknow, India), v. 3, no. 1, p. 36-41.
- Chitale, S. D., and Patel, M. Z., 1975, *Raonthus intertrappea* a new petrified flower from India: Palaeontographica, Abt. B, v. 153, no. 4-6, p. 141-149.
- 1973, *Sahniocarpon harrisii* gen. et sp. nov. from the Mohgaon-kalan beds of India: Palaeobotanist (Lucknow, India), v. 20, no. 3, p. 288-292.
- Chitale, S. D., and Sheikh, M. T., 1971, An infected grain from the Deccan Intertrappean cherts of Mohgaon-kalan: Indian Bot. Soc. Jour., v. 50, no. 2, p. 137-142.
- 1973, A ten locular petrified fruit from the Deccan Intertrappean Series of India: Palaeobotanist (Lucknow, India), v. 20, no. 3, p. 297-299.
- Chow Tseyen and Tsao Chengyao, 1977, On eight species of conifers from the Cretaceous of East China with reference to their taxonomic position and phylogenetic relationship: Acta Palaeontologica Sinica, v. 16, no. 2, p. 165-181.
- Chuvashov, B. I., 1973, Novye devonskie vodorosli Urala [New Devonian algae of the Urals]: Akad. Nauk SSSR, Uralskiy Nauchnyy Tsentr. Institut Geologii i Geokhemii, Trudy, v. 99, p. 28-41.
- Cockerell, T. D. A., 1925, Plant and insect fossils from the Green River Eocene of Colorado: U. S. Natl. Mus. Proc., v. 66, p. 1-13.
- Conrad, M. A., and Peybernes, B., 1973, Sur quelques Dasycladacées (Chlorophycées) du Dogger des Pyrénées centrales et orientales franco-espagnoles: Archives Sci. 26, v. 3, p. 297-308.
- Crepet, W. L., 1978, Investigations of angiosperms from the Eocene of North America: an aroid inflorescence: Rev. Palaeobotany and Palynology, v. 25, p. 241-252.
- Crepet, W. L., and Dilcher, D. L., 1977, Investigations of angiosperms from the Eocene of North America: a mimosoid inflorescence: Am. Jour. Botany, v. 64, no. 6, p. 714-725.
- Crepet, W. L., Dilcher, D. L., and Potter, F. W., 1975, Investigations of angiosperms from the Eocene of North America: a catkin with juglandaceous affinities: Am. Jour. Botany, v. 62, no. 8, p. 813-823.
- Crescenti, U., 1964, *Praerhapydionina murgiana* n. sp. (Foram.) e *Neomacroporella cretacea* n. gen. n. sp. (alga calcarien, Dasycladaceae) nuovi microfossili del Cretacico dell'Italia meridionale: Soc. Geol. Italiana Boll., v. 83, p. 5-15.
- Cros, Pierre, and Lemoine, Marcel, 1966, Dasycladacées nouvelles ou peu connues du Lias Inférieur des dolomites et de quelques autres régions Méditerranéennes. Part 1: Rév. Micropaléontologie, v. 9, no. 3, p. 156-158.
- Daghlian, C. P., 1978, Coryphoid palms from the lower and middle Eocene of southeastern North America: Palaeontographica, Abt. B, v. 166, no. 1-3, p. 44-82.
- Daley, Brian, 1974, Shell encrusting algae from the Bembridge Marls (Lattorfian) of the Isle of Wight, Hampshire, England: Rév. Micropaléontologie, v. 17, no. 1, p. 15-22.
- d'Archiac, Adolphe, 1843, Description géologique du Département de l'Aisne: Soc. Géol. France Mém., v. 5, pt. 1, p. 129-418.
- Darrah, W. C., 1969, A critical review of the upper Pennsylvania floras of eastern United States, with notes on the Mazon Creek flora of Illinois: Privately published, 220 p.
- Dawson, J. W., 1871, The fossil plants of the Devonian and upper Silurian formations of Canada: Ottawa, Geol. Survey Canada, 92 p.
- Dayal, R., 1964a, *Palaeoarthrodendron*, a revised name for *Arthrodendron* Ulrich: Current Science, Bangalore, India, v. 33, no. 23, p. 716-717.
- 1964b, Occurrence of *Boswellia* in the Deccan Intertrappean beds of Keria, Madhya Pradesh: Current Science (Bangalore, India), v. 33, no. 22, p. 683-684.
- Delevoryas, Theodore, and Hope, R. C., 1976, More evidence for a slender growth habit in Mesozoic cycadophytes: Rev. Palaeobotany and Palynology (Spec. issue: Patterns in gymnosperm evolution), v. 21, no. 1, p. 93-100.



- Delevoryas, Theodore, and Person, C. P., 1975, *Mexiglossa varia* gen. et sp. nov., a new genus of glossopteroid leaves from the Jurassic of Oaxaco, Mexico: *Palaeontographica*, Abt. B, v. 154, no. 1-4, p. 114-120.
- Dennis, R. L., and Eggert, D. A., 1978, *Parasporotheca*, gen. nov., and its bearing on the interpretation of the morphology of permineralized medullosan organs: *Bot. Gaz.*, v. 139, no. 1, p. 117-139.
- Dilcher, D. L., 1965, Epiphyllous fungi from Eocene deposits in western Tennessee, U.S.A.: *Palaeontographica*, Abt. B, v. 116, p. 1-54.
- Dilcher, D. L., Potter, F. W., and Crepet, W. L., 1976, Investigations of angiosperms from the Eocene of North America: *Am. Jour. Botany*, v. 63, no. 5, p. 532-544.
- Dobruskina, I. A., 1974, Triassic lepidophytes: *Paleont. Jour.* (English translation of *Paleont. Zhur.*), v. 8, no. 3, p. 384-397.
- 1975, Rol' pet'taspermovyykh pteridospermov v Poxdnepermskikh i Triasovykh florakh [Significance of peltaspermacean pteridosperms in late Permian and Triassic floras]: *Paleont. Zhur.*, no. 4, 1975, p. 120-132.
- Dolms, M. H., 1976, Nova Madeira de gimnosperma do Permiano do Rio Grande do Sul: *Rev. Brasileira Geociencias*, v. 6, p. 164-181.
- Dorofeev, P. I., 1972, [To the taxonomy of the *Euryale* ancestral forms]: *Bot. Zhur.*, v. 57, p. 1047-1054 (in Russian).
- Doubinger, Jeanne, and Gernar, Richard, 1973, Quelques végétaux fossiles nouveaux du bassin houiller Sarro-Lorrain: *Cong. Nat. Soc. Savantes*, 96th, Toulouse, *Comptes Rendus*, Sect. de Sciences, v. 5, p. 47-59.
- Doubinger, Jeanne, and Marguerier, Janine, 1975, Paléoxylologie: Étude anatomique comparée de St-Affrique (Aveyron, France); considérations taxinomiques et stratigraphiques: *Geobios*, no. 8, fasc. 1, p. 25-59.
- Doubinger, Jeanne, and Pons, Denise, 1973, Les Chapignons épiphylls du Tertiaire de Colombie. I. Le gisement de Correjón (Paléocene-Eocene): *Cong. Nat. Soc. Savantes*, 96th, Toulouse, *Comptes Rendus*, v. 5, p. 233-252.
- Douglas, J. G., 1973, The Mesozoic floras of Victoria: *Victoria Geol. Survey Mem.* 29, 185 p.
- Douville, Henri, 1924, Un nouveau genre d'algues calcaires: *Soc. Géol. France Compte Rendu*, 1924, p. 169-170.
- Dragastan, Ovidiu, and Misik, Milan, 1975, *Verticillodesmis clavaeformis* nov. gen. nov. sp. in the upper Jurassic of Czerwystyn Series-Klippen Belt, Czechoslovakia: *Rev. Española Micropaleontologie*, v. 7, no. 2, p. 215-220.
- Edwards, Dianne, 1977, A new non-calcified alga from the upper Silurian of mid Wales: *Palaeontology*, v. 20, pt. 4, p. 823-833.
- Edwards, Dianne, and Richardson, J. B., 1974, Lower Devonian (Dittonian) plants from the Welsh borderland: *Palaeontology*, v. 17, pt. 2, p. 311-324.
- Elias, M. K., 1966, Living and fossil algae and fungi, formerly known as structural parts of marine bryozoans: *Palaeobotanist* (Lucknow, India), v. 14, nos. 1, 2, 3, p. 5-18.
- Elliott, G. F., 1958, Fossil microproblematica from the Middle East: *Micropaleontology*, v. 4, no. 4, p. 419-428.
- 1968, Permian to Palaeocene calcareous algae (Dasycladaceae) of the Middle East: *British Mus. (Nat. History) Bull.*, Geology, Supp. 4, 109 p.
- 1975, *Imperiella* gen. nov., a new alga from the Ruth limestone, upper Permian (Central Alborz Mountains, North Iran): *Eclogae geol. Helvetiae*, v. 68, no. 2, p. 449-455.
- 1978, A new dasycladacean alga from the Palaeocene of Kurdistan: *Palaeontology*, v. 21, pt. 3, p. 687-691.
- Endo, Riui, 1966, Some calcareous algae from Thailand. Contributions to the geology and palaeontology of Southeast Asia. [No.] 29: *Japanese Jour. Geology and Geography* (English translation), v. 37, nos. 2-4, p. 169-173.

- Etallon, A., 1858-1861, Études paléontologiques sur les terrains jurassiques du Haut-Jura. Monographie de l'étage corallien: Soc. Ennulation Doubs Mm., sér. 3, v. 3-6.
- Eyde, R. H., 1970, New name for *Wardenia* Chandler: Taxon, v. 19, no. 4, p. 650.
- 1972, Note on geologic histories of flowering plants: Brittonia, v. 24, no. 1, p. 111-116.
- Fairchild, T. R., Schopf, J. W., and Folk, R. L., 1973, Filamentous algae microfossils from the Caballos novaculite, Devonian of Texas: Jour. Paleontology, v. 47, no. 5, p. 946-952.
- Fairon-Demaret, Muriel, 1977, A new lycophyte cone from the upper Devonian of Belgium: Palaeontographica, Abt. B, v. 162, pts. 1-3, p. 51-63.
- 1978, *Estinophyton gracile* gen. et sp. nov., a new name for specimens previously determined *Protolopododendron wahnbachense* Kräusel and Weyland from the Siegenian of Belgium: Acad. Roy. Belgique, Cl. Sci. Bull., 5th sér., v. 64, p. 597-610.
- Feist-Castel, Monique, 1975, Répartition des charophytes dans le Palocène et l'Eocène du bassin d'Aix-en-Provence: Soc. Géol. France Bull., 7th sér., v. 17, p. 88-97.
- 1977, Description du nouveau genre *Krassavinella* (Charophytes, Characeae) et répartition de *K. lagenalis* (Straub) dans l'Oligocène supérieur de la molasse suisse: Eclogae Geol. Helvetiae, v. 70, no. 3, p. 771-775.
- Felix, Johannes, 1882, Studien ueber fossile Hölzer: Zur Erlangung der Doctorwürde bei der philosophischen facultät der Universität Leipzig, p. 1-81.
- Fischer, J. C., and Thierry, J., 1971, Révision de quelques Dasycladacés jurassiques et proposition d'un nouveau genre: *Coniporella*: Mus. Natl. Hist. Nat. Bull., sér. 3, no. 19, p. 25-34.
- Galtier, Jean, 1968, Un nouveau type de fructification filicinéenne du Carbonifère inférieur: Acad. Sci. (Paris) Comptes Rendus, sér. D., v. 266, p. 1004-1007.
- 1970, Recherches sur les végétaux à structure conservée du Carbonifère inférieur Français: Paléobiologie Continentale, v. 1, no. 4, 221 p.
- Gensel, P. G., 1976, *Renalia huerberi*, a new plant from the lower Devonian of Gaspé: Rev. Palaeobotany and Palynology, v. 22, 1976, p. 19-37.
- Gluchova, L. V., 1967, [New data on the Balakhonka *Cordaïtes* of the Kuznetsk Basin]: Paleont. Zhur., 1967, no. 1, p. 110-119 (in Russian).
- 1978, On the systematics of Cordaitan leaves (leaves without dorsal grooves): Paleont. Jour. (English translation of Paleont. Zhur.), v. 12, no. 4, p. 529-535.
- Gnilovskaja, M. B., 1971, The oldest aquatic plants of the Wendian of the Russian Platform (late Precambrian): Paleont. Jour. (a translation of), 1971, v. 5, no. 3, p. 372-378.
- Goldfuss, G. A., 1826-1844, Petrefacta germaiae (Arnz ed.): Dusseldorf, 3 v.
- Good, C. W., 1975, Pennsylvanian-age calamitean cones, elater-bearing spores, and associated vegetative organs: Palaeontographica, Abt. B, v. 153, no. 1-3, p. 28-99.
- Gorelova, S. G., Men'shikova, L. V., and Khalfin, L. L., 1973, Fitostratigrafiya i opredelitel' rasteniy verkhne-paleozoyskikh ugleosnykh otlozheniy Kuznetskogo Basseyna [A manual of phytostратigraphy and plants from the upper Paleozoic coal-bearing deposits of the Kuznetsk basin]: Sibir. Nauch.-Issled. Inst. Geologii, Geofizikii, Mineral'nogo Syr'ya, Trudy, v. 140 (in 2 parts: text and illustrations, pt. 1, 168, p.; pt. 2, 56 pls.).
- Gottwald, Helmut, 1976, Die bestimmung der "kautschukhölzer" und "Kautschukrinden" aus der braunkohle des Geiseltales, in Eozän floren des Geiseltales: Zentr. Geol. Inst. Abh., v. 26, p. 283-290.
- Grambast, Louis, 1966, *Paléobotanique*—Un nouveau type structurel chez les Clavatoracées; son intérêt phylogénétique et stratigraphie: Acad. Sci. (Paris) Comptes Rendus, v. 262, p. 1929-1932.
- 1971, Remarques phylogénétiques sur les *Septorella* du Crétacé terminal de Provence et les Charophytes associées: Paléobiologie continentale, v. 2, no. 2, p. 1-38.

- 1974, Charophytes du Crétacé Supérieur de la région de Cuenca: I Symposium sobre el Cretacico de la Cordillera Iberia, p. 69–76.
- Grambast, Louis, and Gutiérrez, Guillermo, 1977, Espèces nouvelles de charophytes du Crétacé Supérieur terminal de la Province de Cuenca (Espagne): *Paléobiologie Continentale*, v. 8, no. 2, p. 1–34.
- Grambast, Louis, and Lorch, Jacob, 1968, Une flore de charophytes du Crétacé inférieur du Proche-Orient: *Naturalia Monspeliensia*, Sér. Botany, v. 19, p. 47–56.
- Grambast-Fessard, Nicole, 1968, Contribution à l'étude des flores tertiaires des régions provençales et Alpines: IV. Deux structures ligneuses nouvelles de Sapotacées: *Naturalia Monspeliensia*, Sér. Botany, v. 19, p. 57–74.
- Grauvogel-Stamm, L., and Schaarschmidt, F., 1978, Zur nomenklatur von *Masculostrobis* Seward: *Sci. Géol., Bull.*, v. 31, no. 2, p. 105–107.
- Greguss, Pál, 1967, Fossil gymnosperm woods in Hungary from the Permian to the Pliocene: Budapest, *Akadémiai Kiamó*, 136 p.
- 1969, Tertiary angiosperm woods in Hungary: Budapest, *Akadémiai Kiamó*, 151 p.
- 1974, [A new representative of Coniferae from the Jurassic manganese ore mine of Eplény]: Hungary, Magyar Allami Földtani Intézet, Evi Jelentése, 1972, p. 167–187 (in Hungarian; English summary).
- Guilbault, J. P., and Mamet, B. L., 1976, Codiaceae (Algae) ordoviciennes des Basses-Terres du Saint Laurent: *Canadian Jour. Earth Sci.*, v. 13, no. 5, p. 636–660.
- Gümbel, C. W., 1873, Ueber *Conodictyum bursiforme* Etallon einer foraminifere aus der Gruppe der Dactyloporideen: *Bayerische Akad. Wiss., Sitzungsber., Math-Phys. Kl.*, v. 3, p. 282–294.
- Gürsch, G., 1906, Les spongostromides du Viséen de la Province de Namur: *Mus. Roy. Hist. Nat. Belgique Mém.* v. 3, p. 1–55.
- Güvenc, Tuncer, 1965, Représentants des Bereselleae (Algue calcaires) dans le Carbonifère de Turquie et description d'un nouveau genre: *Goksuella* n. g.: *Soc. Géol. France Bull.*, 7th sér., v. 7, no. 5, p. 843–850.
- 1966, Présence d'algues calcaires dans le Permien des Taurus Occidentaux (Turquie) description d'un nouveau genre et de quelques espèces: *Rev. Micropaléontologie*, v. 9, no. 1, p. 43–49.
- Hacquaert, A. L., 1932, Notes sur les genres *Sycidium* et *Trocholiscus*: *Mus. Roy. Hist. Nat. Belgique Bull.*, v. 8, no. 30, p. 1–22.
- Hall, J. W., 1967, Invalidity of the name *Chrysotheca* Miner for microfossils: *Jour. Paleontology*, v. 41, no. 5, p. 1298.
- Hallbauer, D. K., Jahns, H. M., and Beltmann, H. A., 1977, Morphological and anatomical observations on some Precambrian plants from Witwatersrand, South Africa: *Geol. Rundschau*, v. 66, no. 2, p. 477–491.
- Halle, T. G., 1911, On the geological structure and history of the Falkland Islands: *Uppsala Univ. Inst. Bull.*, v. 11, p. 115–229.
- Harms, V. Z., and Leisman, G. A., 1961, The anatomy and morphology of certain *Cordaites* leaves. *Jour. Paleontology*, v. 35, no. 5 p. 1041–1064.
- Heer, Oswald, 1876–1877, *Flore fossilis Helvetiae—Die Vorweltliche Flora der Schweiz*: Zurich, J. Wurster, 182 p.
- Hickey, L. J., 1977, Stratigraphy and paleobotany of the Golden Valley Formation (Early Tertiary) of western North Dakota: *Geol. Soc. America Mem.* 150, 181 p.
- Hirmer, Max, 1927, *Handbuch der Paläobotanik*: Munich and Berlin, R. Oldenbourg, 708 p.
- Höeg, Ove Arbo, 1967, Ordre incertae sedis des palaeophyllales, in Boureau, Édouard, ed., *Traité de paléobotanique*, v. 2: Paris, Masson, p. 362–399.
- Hofmann, Elise, 1948, *Manilkaroxylon diluviale* n. sp. ein fossiles Sapotaceenholz aus dem Quartär von Paula in Ekador: *Palaeobiologica*, v. 8, no. 3, p. 280–282.



- Hofmann, H. J., 1978, New stromatolites from the Aphebian Mistassini Group, Quebec: Canadian Jour. Earth Sci., v. 15, no. 4, p. 571-585.
- Holmes, W. B. K., 1974, On some fructifications of the Glossopteridales from the Upper Permian of N.S.W.: Linnean Soc. New South Wales Proc., v. 98, pt. 3, p. 131-141.
- 1977, A pinnate leaf with reticulate venation from the Permian of New South Wales: Linnean Soc. New South Wales Proc., v. 102, pt. 2, no. 450, p. 52-57.
- Hope, R. C., and Patterson, O. F., 1970, *Pekinopteris auriculata*: A new plant from the North Carolina Triassic: Jour. Paleontology, v. 44, no. 6, p. 1137-1139.
- Horn af Rantzen, Henning, 1954, Middle Triassic charophyta of south Sweden: Opera Botanica, v. 1, no. 2, 80 p.
- 1956, An annotated check-list of genera of fossil Charophyta: Micropaleontology, v. 2, no. 3, p. 243-256.
- Howe, M. A., 1932, *Chlorotylites*, a fossil green alga from Alabama: Torrey Bot. Club Bull., v. 59, p. 219-220.
- Hueber, F. M., 1971a, Early Devonian land plants from Bathurst Island, District of Franklin: Canada Geol. Survey Paper 71-28, p. 1-17.
- 1971b, *Sawdonia ornata*—A new name for *Psilophyton princeps* var. *ornatum*: Taxon, v. 20, no. 4, p. 641-642.
- Iljinskaya, I. A., 1963, [The fossil flora of Mount Kiin-Kerish in the Zaysan Basin]: Akad., Nauk SSSR Botan. Inst. Trudy, ser. 8, Paleobotanika, no. 4, p. 141-188 (in Russian).
- Istchenko, T. A., 1974, *Tirasophyton*, a new Early Devonian plant genus from Podolia: Paleont. Jour. (English translation of Paleont. Zhur.), 1974, no. 1, p. 112-116.
- Ivanova, R. M., 1973, [Stratigraphy of the middle and upper Viseau on the eastern slope of the southern Urals]: Akad. Nauk SSSR, Ural Nauchn. Tsentr., Inst. Geol. Geokhim. Trudy, v. 82, p. 18-86 (in Russian).
- Jain, K. P., and Gupta, R. C., 1970, Some fungal remains from the Tertiaries of Kerala Coast: Palaeobotanist (Lucknow, India), v. 18, no. 2, p. 177-182.
- Jennings, J. R., 1975, *Protostigmaria*, a new plant organ from the Lower Mississippian of Virginia: Palaeontology, v. 18, pt. 1, p. 19-24.
- Jurina, A. L., 1965, A new prefern from the Middle Devonian of Kazakhstan: Paleont. Jour. (English translation of Paleont. Zhur.), 1965, no. 3, p. 119-122.
- Kaefer, Mathias, and Richter, Peter, 1976, *Buschmannia roeringi* n. gen., (Archaeocytha) aus der Nama-Gruppe Sudwestafrikas: Palaont. Zeitschr., v. 50, no. 1/2, p. 27-33.
- Kar, R. K., and Saxena, R. K., 1974, Algal and fungal microfossils from Matanomadh Formation (Palaeocene), Kutch, India: Palaeobotanist (Lucknow, India), v. 23, no. 1, p. 1-15.
- Karczewska, Jadwiga, and Kyansep-Romaschkina, N. P., 1979, Revision of the Late Cretaceous genus *Mongolichara* Kyansep-Romaschkina: Acta Palaeontologica Polonica, v. 24, no. 4, p. 423-424.
- Kaźmierczak, Jozef, 1975, Colonial Volvocales from the Upper Devonian of Poland and their palaeoenvironmental significance: Acta Palaeontologica Polonica, v. 20, no. 1, p. 73-85.
- Khan, A. M., 1969, *Senia reticulata*, a new plant fossil from the Raniganj rocks of the Talchir coal field, Orissa, India, in J. Sen Memorial Vol.: Bengal, India, J. Sen Memorial Comm. and Bot. Soc. Bengal, p. 335-337.
- Kimura, Tatsuaki, and Sekido, Shinji, 1974, Bipinnate cycadean fronds newly found from the Lower Cretaceous Itoshiro Sub-group, the Tetori Group, central Honshu, Japan: Birbal Sahni Inst. Palaeobotany (Lucknow, India), Spec. Pub. 2, p. 23-27.

- 1975, *Nilssoniocladus* n. gen. (Nilssoniaceae n. fam.), newly found from the early Lower Cretaceous of Japan: *Palaeontographica*, Abt. B, v. 153, no. 1-3, p. 111-118.
- Kirichkova, A. T., and Pavlov, V. V., 1965, [New Cretaceous ferns from North Siberia]: *Palaeont. Zhurnal*, 1965, no. 2, p. 118-121 (in Russian).
- Knobloch, Ervin, 1974, *Velenovskia* n. g. aus dem Cenoman Mährens: *Casopis pro mineralogii a geologii*, v. 19, no. 2, p. 171-173.
- Knoll, A. H., Barghoorn, E. S., and Golubic, Stjepko, 1975, *Paleopleurocapsa wopfnerii* gen. et sp. nov. — A late Precambrian alga and its modern counterpart: *Nat. Acad. Sci. Proc.*, v. 72, no. 7, p. 2488-2492.
- Koeniguer, Jean-Claude, 1973, Les bois heteroxylés de l'oasis de Kirdimi (Tchad): *Cong. Nat. Soc. Savantes*, 96th, Toulouse, Sect. Sci. Comptes Rendus, v. 5, p. 191-214.
- Kolakovski, A. A., 1965, [*Ushia*, a new genus of the Palaeocene flora of Kamyshein]: *Paleont. Zhur.*, 1965, no. 3, p. 127-132 (in Russian).
- Komar, V. A., 1964, Stolbchatye stromatolity Rifeya severa Sibirskoy Platformy. [Columnar stromatolites from the Riphean of the north Siberian Platform]: *Nauchno-issled. Inst. Geologii Arkiki Uchennye Zapiski, Paleontologiya i biostratigrafiya*, v. 6, p. 84-105.
- Korde, K. B., 1964, [A new generic name, *Jacutiella* Korde, nom. nov.]: *Palaeont. Zhur.*, 1964, no. 2, p. 162 (in Russian).
- 1966, [Recent contributions to the taxonomy and evolution Rhodophyceae of the Early Paleozoic]: *Akad. Nauk SSSR Doklady*, v. 166, no. 6, p. 1440-1442 (in Russian).
- Korolyuk, I. K., 1960, Subdivisions of Cambrian and Precambrian of eastern Siberia according to stromatolites: *Internat. Geol. Cong.*, 21st, Copenhagen, 1960, Report no. 8, p. 26-36.
- Korovin, E. P., 1956, Novy tretichny predstavi telb semeystva Ebenaceae v Sredney Azi.: *Bot. Zhur.*, v. 41, no. 6, p. 830-835.
- Kramer, Klaus, 1974, Die Tertiären Hölzer Südost-Asiens (Unter Susschluss der Diptocarpaceae) 2. Teil: *Palaeontographica*, Abt. B, v. 145, pt. 1-4, 150 p.
- Krasavina, L. K., 1978, [Interesting records of fossil Charophyta from eastern Siberia]: *Bot. Zhur.*, v. 63, no. 2, p. 226-233 (in Russian; English abstract).
- Krasilov, V. A., 1965, [Araucariaceae from the lower Cretaceous of the Far East]: *Paleont. Zhurnal*, 1965, no. 2, p. 109-117 (in Russian).
- 1967, Rannemelovaia flora Iuzhnogo Primor'ia i ee znachenie dlia stratigraphie: Moscow, Nauka, 264 p.
- 1976, Tsagaianskaia flora Amnuskoi oblasti: Moscow, Izd. Nauka, 92 p.
- Krassilov, Valentin, 1975, Dirhopalostachyaceae; a new family of proangiosperms and its bearing on the problem of angiosperm ancestry: *Palaeontographica*, Abt. B, v. 153, pt. 1-3, p. 100-110.
- 1978, Mesozoic lycopods and ferns from the Bureja Basin: *Palaeontographica*, Abt. B, v. 166, pt. 1-3, p. 16-29.
- Kräusel, Richard, 1962, Antarctica fossil wood: *Trans-Antarctic Exped. Sci. Reports*, no. 9, Appendix, p. 133-154.
- Kräusel, Richard, and Dolianiti, E., 1958, Gymnospermenhölzer aus dem Paläozoikum Brasiliens: *Palaeontographica*, Abt. B, v. 104, pt. 4-6, p. 115-137.
- Kräusel, Richard, and Venkatachala, B. S., 1966, Devonische Spongiophytaceen aus Ost- und West-Asien: *Senckenbergiana Lethaea*, v. 47, p. 215-251.
- Kräusel, Richard, and others, 1973, [Title unknown, published in Proceedings of the Symposium on Deccan Trap Country held at Poona Nov. 10-12, 1968]: *Indian National Acad. Bull.*, no. 45, p. 209-210.
- Krylov, I. N., 1967, [Riphean and lower Cambrian stromatolites of Tien-Shan and Karatau]: *Akad., Nauk SSSR, Geol. Inst. Trudy*, no. 171, p. 1-72 (in Russian).

- Krylov, I. N., and Perttunen, V., 1978, [Aphebian stromatolites of the Tervola region, North-West Finland]: Akad. Nauk SSSR Geol. Inst., Trudy, new ser., no. 312, p. 87-105 (in Russian).
- Kulik, E. L., 1973, Cyanophyta, Chlorophyta, Rhodophyta, in [Stratigraphie et faune du Carbonifère de la reviera Shartym]: Ural. Geol. Upravlenie, Izd. Lvov., p. 39-48 (in Russian).
- Kulkarni, A. R., and Patil, K. S., 1977, *Aristolochioxylon prakashii* from the Deccan Intertrappean beds of Wardha district, Maharashtra: Geophytology (Lucknow, India), v. 7, no. 1, p. 44-49.
- Kyansep-Romashinka, N. P., 1974, Znachenie kharovykh vodorosley dlya stratigrafii Mezozoyskikh otlozheniy Fergany i paleolimnologicheskikh rekonstruktsiy [Significance of charophytic algae for Mesozoic deposits of Fergana and paleolimnological reconstruction]: Akad., Nauk SSSR, Inst. Ozerovedeniya, Problemy issledovaniya drevnikh ozer Evrazii, p. 21-37.
- 1975, Some late Jurassic and Cretaceous charaophyta from Mongolia—Fossil fauna and flora of Mongolia: The joint Soviet-Mongolian Paleontological Expedition. Trans., v. 2, p. 181-204.
- Lacey, W. S., 1976, Further observations on the Molteno flora of Rhodesia: Arnoldia (Rhodesia), v. 7, no. 36, p. 1-14.
- Lacey, W. S., van Dijk, D. E., and Gordon-Gray, K. D., 1975, Fossil plants from the upper Permian in the Mooi River district of Natal, South Africa: Natal Mus. Ann., v. 22, pt. 2, p. 349-420.
- Lakhanpal, R. N., Prakash, U., and Bande, M. B., 1978, Fossil dicotyledonous woods from the Deccan Intertrappean beds of Mandla District in Madhya Pradesh: Palaeobotanist (Lucknow, India), v. 25, p. 190-204.
- Lange, R. T., 1978, Southern Australian Tertiary epiphyllous fungi, modern equivalents in the Australasian region, and habitat indicator value: Canadian Jour. Botany, v. 56, no. 5, p. 532-541.
- Lebedev, E. L., 1974, Albbskay flora i stratigrafiya nizhnego mela Zapadnogo Priokhot'ya [Albian flora and lower Cretaceous stratigraphy of West Priokhotsk]: Akad. Nauk SSSR, Geol. Institut Trudy, new ser., no. 254, 147 p.
- Lejal-Nicol, Annie, 1975, Sur une nouvelle flore à Lycophytes du Dévonien Inférieur de la Libye: Palaeontographica, Abt. B, v. 151, pt. 1-3, p. 52-96.
- Lele, K. M., 1969, Studies in the Indian middle Gondwana flora: 5. *Parsorophyllum* gen. nov. from the Parsora beds, South Rewa, Gondwana Basin, in J. Sen Memorial Vol.: Bengal, India, J. Sen Memorial Comm. and Bot. Soc. Bengal, p. 313-318.
- Lemoigne, Yves, 1978, Flores Tertiares de la Haute Vallée de L'Omo (Ethiopie): Palaeontographica, Abt. B, v. 165, pt. 4-6, p. 89-157.
- Lemoigne, Yves, and Beauchamp, J., 1972, Paléoflores tertiares de la région de Welkite (Ethiopie, province du Shoa): Soc. Géol. France Bull., v. 7, no. 16, p. 338-339.
- Lepekhina, V. G., and Yatsenko-Khmelevsky, A. A., 1966, Classification and nomenclature of woods of Palaeozoic pycnoxylic plants: Taxon, v. 15, p. 66-70, 191-192.
- Le Roux, S. F., 1966, A new fossil plant, *Plumsteadiella elegans*, from Vereeniging, Transvaal: South African Jour. Sci., v. 62, no. 2, p. 37-43.
- 1975, A problematical element in the *Glossopteris* of Vereeniging: Palaeontologica Africana, v. 18, p. 31-34.
- Lévy, J., 1966, *Neomizzia* (Dasycladacée) nouveau genre Lias du Maroc: Rev. Micropaléontologie, v. 9, no. 1, p. 37-39.
- Licari, G. R., 1978, Biogeology of the late pre-Phanerozoic Beck Spring Dolomite of eastern California: Jour. Paleontology, v. 52, no. 4, p. 767-792.



- Long, A. G., 1966, Some lower Carboniferous fructifications from Berwickshire, together with a theoretical account of the evolution of ovules, cupules, and carpels: Royal Soc. Edinburgh Trans., v. 66, no. 14, p. 345-375.
- 1976a, *Calathopteris heterophylla* gen. et sp. nov., a lower Carboniferous pteridosperm bearing two kinds of petioles: Royal Soc. Edinburgh Trans., v. 69, no. 15, p. 327-336.
- 1976b, *Rowleya trifurcata* gen. et sp. nov., a simple petrified vascular plant from the lower Coal Measures (Westphalian) of Lancashire: Royal Soc. Edinburgh Trans., v. 69, no. 20, p. 467-481.
- Lorch, Jacob, 1967, A Jurassic flora of Makhtesh Ramon, Israel: Israel Jour. Botany, v. 16, p. 131-155.
- Louvet, Paul, 1974, Sur trois bois fossiles du Tertiaire de Libye: Soc. Bot. France Bull., v. 121, no. 7-8, p. 269-280.
- Louvet, Paul, and Mouton, J., 1970, La flore Oligocene du Djebel Coquin (Libye): Cong. Nat. Soc. Savantes, 95th, Actes, v. 3, p. 79-96.
- McCoy, F., 1847, On the fossil botany and zoology of the rocks associated with the coal in Australia. Annals and Mag. Nat. History, v. 1, no. 20, p. 145-157.
- MacGinitie, H. D., 1974, An early middle Eocene flora from the Yellowstone-Absaroka Volcanic Province, northwestern Wind River Basin, Wyoming: California Univ. Pubs. Geol. Sci., v. 108, 103 p.
- Mädler, Karl, 1963, Die figurierten organschen Bestandteile der Posidonienschiefer: Geol. Jahrb. Beihefte, 58, p. 287-406.
- Maithy, P. K., 1972a, *Dichotomopteris*, a new type of fern frond from the lower Gondwana of India: Palaeobotanist (Lucknow, India), v. 21, no. 3, p. 365-367.
- 1972b, A revision of the lower Gondwana *Sphenopteris* from India: Palaeobotanist (Lucknow, India), v. 21, no. 1, p. 70-80.
- 1972c, Studies in the *Glossopteris* flora of India—41. *Gondwanophyton* gen. nov. with a revision of allied plant fossils from the lower Gondwana of India: Palaeobotanist (Lucknow, India), v. 21, no. 3, p. 298-304.
- 1973, Micro-organisms from the Bushimay System (late Pre-Cambrian) of Kanshi, Zaire: Palaeobotanist (Lucknow, India), v. 22, no. 2, p. 133-149.
- 1975, Three new fern fronds from the *Glossopteris* flora of India: Palaeobotanist (Lucknow, India), v. 24, no. 2, p. 96-101.
- Maithy, P. K., and Sukla, Manoj, 1974, Microbiota from the Suket Shales, Ramapura, Vindhyan System (late Pre-Cambrian), Madhya Pradesh: Palaeobotanist (Lucknow, India), v. 23, no. 3, p. 176-188.
- Makarikhin, V. V., 1978, [Some Yatulian stromatolites of Karelia]: Akad. Nauk SSSR Geol. Inst. Trudy, new ser., no. 312, p. 72-86 (in Russian).
- Mamay, S. H., 1975, *Sandrewia*, n. gen., a problematical plant from the lower Permian of Texas and Kansas: Rev. Palaeobotany and Palynology (Henry N. Andrews, Jr., spec. issue), v. 20, no. 1/2, p. 75-83.
- Mamet, B. L., 1970, Sur les Umbellaceae: Canadian Jour. Earth Sci., v. 7, no. 4, p. 1164-1171.
- 1974, Sur deux Dasycladacées Carbonifères des Cordillères Nord-Américaines: Rev. Micropaléontologie, v. 17, no. 1, p. 38-44.
- Mamet, B. L., Mortelmans, G., and Roux, Alain, 1978, Algues Viséennes du Sondage de Turnhout (Campine Belgique): Soc. Géol. Belgique Ann., v. 101, p. 351-383.
- Mamet, B. L., and Roux, Alain, 1974, Sur quelques algues tubulaires scalariformes de la Téthys Paléozoïque: Rev. Micropaléontologie, v. 17, no. 3, p. 134-156.
- 1975a, *Jansaella ridingi*, nouveau genre d'algue? dans le Dévonien de l'Alberta: Canadian Jour. Earth Sci., v. 12, p. 1480-1484.
- 1975b, Dasycladacées Dévoniennes et Carbonifères de la Téthys Occidentale: Rev. Española Micropaleontología, v. 7, no. 2, p. 245-295.

- 1977, Algues rouges Dévonienues et Carbonifères de la Téthys Occidentale. 4<sup>me</sup> Partie: Rev. Micropaléontologie, v. 19, p. 215-266.
- 1978, Algues Viséennes et Namuriennes du Tennessee (Etats-Unis): Rev. Micropaléontologie, v. 21, no. 2, p. 68-97.
- Marguerier, Janine, 1973, Paléoxylologie du Gondwana Africain—Étude et affinités du genre *Australoxylon*: Palaeontologia Africana, v. 16, p. 37-58.
- Maslov, V. P., 1954, O nizhnem silure voslochnoi Sibiri: Akad. Nauk SSSR, Vosprosy Geol. Azii, v. 1, p. 495-529.
- 1956, [Fossil calcareous algae of the SSSR.]: Akad. Nauk SSSR Geol. Inst. Trudy, no. 160, 300 p. (in Russian).
- 1960, [Stromatolites]: Akad. Nauk SSSR Geol. Inst. Trudy, new ser., no. 41, 186 p. (in Russian).
- 1962, [U.S.S.R. red algae fossils and their connection with environment phase]: Akad. Nauk SSSR Inst. Geol. Trudy, new ser., no. 53, 220 p. (in Russian).
- Maslov, V. P., and Rengarten, N. V., 1964, [The discovery of fossil calcareous algae in loesses]: Akad. Nauk SSSR Doklady, v. 159, no. 3, p. 579-581 (in Russian).
- Massieux, Michele, and Tambareau, Yvette, 1978, Charophytes thanétiennes et infra-ildienues des Pyrénées Centrales: Rev. Micropaléontologie, v. 21, no. 3, p. 140-148.
- Mathur, A. K., 1974, A new fossil seed (Boraginaceae) from the Siwalik Group: Indian Geologists' Assoc. Bull., v. 7, no. 1, p. 43-49.
- Meyen, S. V., 1969, New data on relationship between Angara and Gondwana late Paleozoic floras, in International Union of Geological Sciences, Symposium on Gondwana stratigraphy, 1st, Mer del Plata, Sept. 1967: Paris, UNESCO, p. 141-157.
- 1976, Permian conifers of West Angaraland and new puzzles in the Coniferalean phylogeny: Palaeobotanist (Lucknow, India), v. 25, p. 298-313.
- Milanović, Momcilo, 1965, *Salopekiella* nove rod familje Dasycladaceae iz permskih sedimentata Velebita: Acta Geologica (Zagreb), v. 5, p. 373-382.
- 1966a, *Goniolinopsis*, a new Permian genus of the family Dasycladaceae: Geol. Vjesnik, v. 19 (1965), p. 115-121.
- 1966b, *Likanella*—A new Permian genus of the family Dasycladaceae: Geol. Vjesnik, v. 19 (1965), p. 9-13.
- 1974, *Kochanskyella* (Chlorophyta, Dasycladaceae), a new Permian genus of Mount Velebit, Croatia: Geol. Vjesnik, v. 27, p. 127-132.
- Millay, M. A., 1977, *Acaulanium* gen. n., a fertile marattialean from the upper Pennsylvanian of Illinois: Am. Jour. Botany, v. 64, no. 2, p. 223-229.
- Millay, M. A., and Taylor, T. N., 1977, *Feraxotheca* gen. n., a lyginopterid pollen organ from the Pennsylvanian of North America: Am. Jour. Botany, v. 64, no. 2, p. 177-185.
- Miller, C. N., Jr., 1967, Evolution of the fern genus *Osmunda*: Michigan Univ. Mus. Paleontology Contr., v. 21, no. 8, p. 139-203.
- Mogucheva, N. K., 1973, Rannetriasovaya flora Tungusskogo Basseyna [Early Triassic flora of the Tunguska Basin]: Sibir. Nauch.-Issled. Inst. Geologii, Geofizikii Mineral'nogo Syr'ya (SNIIGGMS), Trudy, v. 154, 160 p.
- Moorman, Mary, 1974, Microbiota of the late Proterozoic Hector Formation, southwestern Alberta, Canada: Jour. Paleontology, v. 48, no. 3, p. 524-539.
- Morbelli, M. A., and Petriella, Bruno, 1973, "*Austrostrobus ornatum*" nov. gen. et sp., cono petrificado de Lycopside del Triasico de Santa Cruz [Argentina]: La Plata, Univ. Nac., Mus., Rev., Paleontologia, v. 7, no. 46, p. 279-289.
- Morey, Elsie, and Morey, P. R., 1977, *Paralycopodites minutissimus* gen. et sp. n., from the Carbondale Formation of Illinois: Palaeontographica, Abt. B, v. 162, pt. 1-3, p. 64-69.
- Mu Xinan, 1977, [Upper Permian fossils fungi from Anshun of Guizhou]: Acta Palaeont. Sinica, v. 16, no. 2, p. 151-158 (in Chinese; English abstract).

- Musacchio, E. A., 1973, Charophytas y Ostrocodos no marinos del Grupo Neuquen (Cretacico Superior) en algunos afloramientos de las Provincias de Rio Negro y Neuquen, Republica Argentina: La Plata, Univ. Nac., Mus., Rev., Paleontologia, v. 8, no. 48, p. 1-32.
- Mussa, Diana, 1974a, Palaeoxiloanatomia Brasileira. I. Portopinaceae da Formação Botucatu, Minas Gerais, Brasil: Acad. Brasileira Ciênc., Anais, v. 46, no. 3-4, p. 497-513.
- 1974b, Palaeoxiloanatomia Brasileira. II. Novo gênero de Lenho Fóssil da Formação Irati, Estado São Paulo, Brasil: Acad. Brasileira Ciênc. Anais, v. 46, no. 3-4, p. 617-634.
- 1978a, *Brasilestiloxylon* e *Solenobrasilioxylon* dois novos generos Gondwânicos na Formação Irati, Estado de São Paulo, Brasil: São Paulo Univ. Inst. Geociencias Bol., v. 9, p. 118-127.
- 1978b, On the anatomy of wood showing affinities with the genus *Vertebraria* Royle, from the Irati Formation, State of São Paulo, Brazil: São Paulo Univ., Inst. Geociencias, Bol., v. 9, p. 153-201.
- Mustafa, H., 1975, Beiträge zur Devonflora. I: Argumenta Palaeobotanica, no. 4, 1975, p. 101-133.
- 1978a, Beiträge zur Devonflora. II: Argumenta Palaeobotanica, no. 5, p. 31-56.
- 1978b, Beiträge zur Devonflora. III: Argumenta Palaeobotanica, no. 5, p. 91-132.
- Nathorst, A. G., 1920, Zur fossilen flora der Polarländer: Stockholm, 45 p.
- Nautiyal, Avinash Ch., 1978, Discovery of Cyanophycean algal remains and Chitinozoans from the late Precambrian argillaceous sequence of Satpuli, Garhwal Himalay, India: Current Sci., v. 47, no. 7, p. 222-226.
- Němejc, F., and Pacltová, B., 1972, Hepaticae in the Senonian of South Bohemia: Palaeobotanist (Lucknow, India), v. 21, no. 1, p. 23-26.
- Neuberg, M. F., 1964, [Permian flora of Petchora Basin, part II. Sphenopsida]: Akad. Nauk SSSR, Geol. Inst. Trudy, new ser., no. 3, 90 p. (in Russian).
- Nikitin, V. P., 1976, [The Miocene of the Mamontova Gora, stratigraphy and paleoflora. Part III. Seeds and fruits in paleoflora of the Mamontova Gora]: Akad. Nauk SSSR, Sibirsk. Otdeleniye, Institut Geologii i Geofiziki Trudy, no. 233, 256 p. (in Russian).
- Niklas, K. J., 1976, Morphological and chemical examination of *Courvoisiella ctenomorpha* gen. and sp. nov., a siphonous alga from the upper Devonian, West Virginia, U.S.A.: Rev. Palaeobotany and Palynology, v. 21, p. 187-203.
- Nuzhnov, S. V., 1967, Rifeiskie otlozheniia iugo-vostoka Sibirskoi platformy: Moscow, Akad. Nauk SSSR, 1967, 159 p.
- Oberste-Brink, K., 1914, Beiträge zur Kenntnis der Farne und farnähnlichen Gewächse des Culms von Europa: Preuss. geol. Landesanst. Jahrb. 35, v. 1, no. 1, p. 95.
- Obrhel, Jiri, 1966, *Protopteridium hostinense* Krejci und Bemerkungen zu den übrigen Arten der gattung *Protopteridium*: Casopis pro Mineralogii a Geologii, v. 11, no. 4, p. 441-443.
- Ott, Ernest, 1967, Dasycladaceen aus der nordalpinen Obertrias: Bayer. Staatssaml. Paläontologie und hist. Geologie Mitt., v. 7, p. 205-226.
- Ozaki, Kimihiko, 1978, On a new genus *Nymphar* and a fossil leaf of *Nuphar* from the early Miocene Nakamura Formation of Gifu Prefecture, Japan: Yokohama Nat. University Sci. Reps., Sec. 2, no. 25, p. 11-19.
- Pal, A. K., and Ghosh, R. N., 1974, Fossil algae from the Miocene of Cutch, India: Palaeobotanist (Lucknow, India), v. 21, no. 2, p. 189-192.
- Palibine, J. W., 1932, Les conifères nouvelles du Neogène de l'Oural et du Caucase: Acad. Sci. URSS, Jardin Bot. Bull., v. 30, no. 1-2, p. 53-61.



- Pampaloni, Liugi, 1902, I resiti organici nel disordine de Melilli in Sicilia: *Palaeontographica Italica*, v. 8, p. 121-130.
- Pant, D. D., and Bhatnagar, Suman, 1975, A new kind of foliage shoots *Searsolia oppositifolia* gen. et sp. nov. from lower Gondwanas of Raniganj coal field, India: *Palaeontographica*, Abt. B, v. 152, pt. 4-6, p. 191-199.
- Pant, D. D., and Basu, Nupur, 1977, On some seeds, synangia and scales from the Triassic of Nidpur, India: *Palaeontographica*, Abt. B, v. 163, pt. 5-6, p. 162-178.
- 1978, On two structurally preserved bryophytes from the Triassic of Nidpur, India: *Palaeobotanist* (Lucknow, India), v. 25, p. 340-352.
- Pant, D. D., and Khare, P. K., 1974, *Demudopteris* gen. nov.—a new genus from the lower Gondwanas of the Raniganj coal field, India: *Royal Soc. (London) Proc.*, Ser. B, v. 186, no. 1083, p. 121-135.
- Pant, D. D., and Misra, Lata, 1976, Compressions of a new type of pteridophyll, *Asanolia* gen. nov. for the lower Gondwanas of the Raniganj coal field, India: *Palaeontographica*, Abt. B, v. 155, pt. 5-6, p. 129-139.
- 1977, On two genera of pteridophylls *Damudosorus* gen. nov. and *Trithecopteris* gen. nov. from the lower Gondwanas of the Raniganj coal field: *Palaeontographica*, Abt. B, v. 164, pt. 1-3, p. 76-86.
- Pant, D. D., and Singh, Sudha, 1978, Cuticular structure and affinities of *Cheirophyllum lacerata* (Feistmantel) n. comb.: *Palaeobotanist* (Lucknow, India), v. 25, p. 353-362.
- Pant, D. D., and Srivastava, G. K., 1977, On the structure of *Gleichenia rewahensis* Feistmantel and allied fossils from the Jabalpur series, India: *Palaeontographica*, Abt. B, v. 163, pt. 5-6, p. 152-161.
- Paradkar, S. A., 1971a, *Rhizomites dakshini* gen. et sp. nov. A new pteridophyte axis from the Deccan Intertrappean beds of India: *Botanique* (Nagpur, India), v. 2, no. 1, p. 15.
- 1971b, *Chitaleypushpam mohgaense* gen. et sp. nov. from the Deccan Intertrappean beds of India: *Palaeobotanist* (Lucknow, India) v. 20, no. 3, p. 334-338.
- 1975, On a new monocot axis with pathogenic fungi from the Deccan Intertrappean beds of India: *Geophytology* (Lucknow, India), v. 5, no. 1, p. 94-97.
- Parfenova, M. D., 1965, [Some new woods from Permian deposits of the Kuzbass]: *Tomsk. Politekhn. Inst. Izv.*, v. 127, no. 2, p. 22-31 (in Russian).
- Penecke, A. K., 1894, Das Grazer Devon: *Geol. Reichsanst. Jahrb.*, v. 43, p. 567-616, Vienna.
- Peters, M. D., and Christophel, D. C., 1978, *Austrosequoia wintonensis*, a new taxodaceous cone from Queensland, Australia: *Canadian Jour. Botany*, v. 56, no. 24, p. 3119-3128.
- Petriella, Bruno, 1972, Estudio de maderas petrificadas del Terciario inferior del area central de Chubut (Cerro Bororo): *La Plata, Univ. Nac. Mus., Rev., Paleontologia*, v. 6, no. 41, p. 159-254.
- Pfefferkorn, H. W., 1976, Pennsylvanian tree fern compressions *Caulopteris*, *Megaphyton* and *Artisophyton* gen. nov. in Illinois: *Illinois State Geol. Survey Circ.* 492, 31 p.
- Pflug, H. D., 1965, Organische reste aus der Belt Serie (Algonkium) von Nordamerika: *Paläont. Zeitschr.*, v. 39, no. 1/2, p. 10-25.
- 1966, Einige reste Niedriger pflanzen aus dem Algonkium: *Palaeontographica*, Abt. B, v. 117, pt. 4-6, p. 59-74.
- 1976, *Ramsaysphaera ramses* n. gen. n. sp. aus den onverwacht-Schichten (Archaikum) von Süd Afrika: *Palaeontographica*, Abt. B, v. 158, pt. 5-6, p. 130-168.
- Philippova, G. G., 1978, New Cretaceous angiosperms from the Anadyr River basin: *Paleont. Jour. (English translation of Paleont. Zhur.)*, v. 12, no. 1, p. 125-130.
- Pia, Julius, 1920, Die Siphoneae verticillatae vom Karbon bis zur Kreide. *Zool. Bot. Gesell., Wien, Abh.* v. 11, no. 2, p. 1-263.

- 1934, Kalkalgen aus dem Eozan der Felsen von Hricovsk Podhradie im Waagtal: Czechoslovakia, Statni. Geol. Ústav Vestník v. 10, no. 1-2, p. 14-18.
- 1943, Geologische Untersuchungen in der Salmgruppe (Oberdonau): Naturhist. Mus., Wien, Ann., v. 53, p. 5-155.
- Platonov, V. A., 1974, Systematics of the Umbellaceae (Charophyta): Paleont. Jour. (English translation of Paleont. Zhur.), no. 1, p. 94-103.
- Pojarkov, B. V., 1965, [On the taxonomic position of the *Umbella*]: Akad. Nauk SSSR Doklady, new ser., v. 163, p. 728-730 (in Russian).
- Poncet, Jacques, 1974a, Description de quelques Algues calcaires éodévoniennes du Nord-Est du Massif Armoricain: Soc. Géol. France Bull., ser. 7, v. 16, no. 2, p. 225-229.
- 1974b, *Uenella roquellensis* nov. gen., nov. sp., Dasycladacée Eodévonienne du Massif Armoricain (France). Observations sur son ecologie: Geobios, no. 7, pt. 1, p. 77-80.
- 1975, *Clibeca devoniana* nov. gen., nov. sp. algue calcaire nouvelle de l'Eodévonien du N. E. du Massif Armoricain (France): Geobios, no. 8, pt. 2, p. 119-123.
- Poulsen, Christian, 1974, Further contributions to the knowledge of the Paleozoic of Slagelse no. 1, western Sealand: Denmark Geol. Undersøgelse, ser. 2, no. 101, 42 p.
- Prakash, Uttam, 1973, Fossil woods from the lower Siwalik beds of Himachal Pradesh, India: Palaeobotanist (Lucknow, India), v. 22, no. 3, p. 192-210.
- 1976, Fossil woods resembling *Dichrostachys* and *Entandrophragma* from the Tertiary of the Middle East: Zentral. Geol. Inst. Abh., no. 26, p. 499-507.
- Prakash, Uttam, Bresinová, D., and Awasthi, N., 1974, Fossil woods from the Tertiary of south Bohemia: Palaeontographica, Abt., B, v. 147, pt. 4-6, p. 107-123.
- Prakash, Uttam, and Lalitha, C., 1978, Fossil wood of *Artocarpus* from the Tertiary of Assam: Geophytology (Lucknow, India), v. 8, no. 1, p. 132-133.
- Prakash, Uttam, and Tripathi, P. P., 1972, Fossil woods from the Tertiary of Assam: Palaeobotanist (Lucknow, India), v. 21, no. 3, p. 305-316.
- 1973, Fossil dicotyledonous woods from the Tertiary of eastern India: Palaeobotanist (Lucknow, India), v. 22, no. 1, p. 51-62.
- 1974, Fossil dicot woods from the Tertiary of Assam: Palaeobotanist (Lucknow, India), v. 23, no. 2, p. 82-88.
- 1975, Fossil woods of *Ougenia* and *Madhuca* from the Tertiary of Assam: Palaeobotanist (Lucknow, India), v. 24, no. 2, p. 140-145.
- Puri, G. S., 1966, Some studies on the Tertiary of Nigeria, West Africa: Palaeobotanist (Lucknow, India), v. 14, no. 3, p. 236-245.
- Purkynova, E., 1974, Phytostратigraphie des Paleozoikum bei Kozlovice in dem möhrischen Teil des Oberschlesischen Beckens: Opava, Czechoslovak Republic, Slezke Museum, Casopis, Acta, Ser. A., v. 23, p. 109-112 (in Czech; German summary).
- Radchenko, M. I., 1969, in Sukhov, S. V., 1969, Semena Pozdnepaleozoyskikh rasteniy Sredney Sibiri [Seed of late Paleozoic plants of central Siberia]: Sibir. Nauchno-Issled. Inst. Geologii, Geofizii, Mineral'nogo Syr'ya, Trudy, no. 64.
- Radoičić, Raika, 1964, *Teutloporella gallaeformis* n. sp. du Jurassique des Dinarides externes: Geol. Glasnik (Titograd), v. 4, p. 219-235 (in Serbian; French summary).
- 1970, The new dasycladacean genus *Pseudoclypeina* (a preliminary report): Savet Akad. Nauka Umjetnosti, Bull. Sci. (Zagreb), sec. A, v. 15, no. 1, p. 4-5.
- Raviv, Vada, and Lorch, Jacob, 1970, *Verticilloporella*, a new Mesozoic genus of Dasycladaceae, with discussion on *Munier* and *Actinoporella*: Israel Jour. Botany, v. 19, p. 225, 235.
- Remy, Renate, and Remy, Winfried, 1975, Zur Ontogenie der Sporangioshore von *Calamostocahys spicata* var. *eimeri* n. var. und zur Aufstellung des genus *Schimperia* n. genus: Argumenta Palaeobotanica, no. 4, p. 83-92.

- Remy, Winfried, and Remy, Renate, 1975, *Sporangiostrobus puertollanensis* n. sp. und *Puertollania sporangiostrobifera* n. gen., n. sp., aus dem Stefan von Puertollano, Spanien: Argumenta Palaeobotanica, no. 4, p. 13-29.
- 1978, *Calamitopsis* n. gen. und die nomenklator und taxonomie von *Calamites* Brongniart, 1828: Argumenta Palaeobotanica, no. 5, p. 1-10.
- Reitlainger, E. A., 1966, [Sur les *Unbella* de la partie européenne de l'URSS]: Akad. Nauk SSSR, Inst. Geol. Trudy, no. 143, p. 213-220 (in Russian).
- Rich, Mark, 1974, Upper Mississippian (Carboniferous) calcareous algae from northeastern Alabama, south-central Tennessee and northwestern Georgia: Jour. Paleontology, v. 48, no. 2, p. 360-374.
- Rigby, J. F., 1973, *Gondwanidium* and other similar upper Palaeozoic genera and their stratigraphic significance. Queensland Geol. Survey Pub. 350, Paleont. Papers, no. 24, p. 1-10.
- Römer, F. A., 1860, Beiträge zur geologischen kenntnis des nordwestlichen Harz gebirges: Palaeontographica, v. 3.
- Rothwell, G. W., 1972, *Palaeoscerotium pusillum* gen. et sp. nov., a fossil eumycete from the Pennsylvanian of Illinois: Canadian Jour. Botany, v. 50, no. 11, p. 2353-2356.
- 1976, A new pteropsid fructification from the middle Pennsylvanian of Kansas: Palaeontology, v. 19, pt. 2, p. 307-315.
- 1978, *Doneggia complura* gen. et sp. nov., a filicalean fern from the upper Pennsylvanian of Ohio: Canadian Jour. Botany, v. 56, no. 24, p. 3096-3104.
- Rüffle, Ludwig, and Jähnichen, Hellmut, 1976, Die Myrtaceen im geiseltal und einigen anderen Fundstellen des Eozän: Zentral. Geol. Inst. Abh., no. 26, p. 307-336.
- Sal'menova, K. Z., 1978, Permian flora of the northern Cis-Balkhash: Paleont. Jour. (English translation of Paleont. Zhur.), v. 12, no. 4, p. 536-541.
- Samylina, V. A., 1964, [The Mesozoic flora of the area to the west of the Kolyma River (the Zyrianka coal basin). 1. Equisetales, Filicales, Cycadales, Bennettitales]: Paleobotanica (Akad. Nauk SSSR, Bot. Inst. Trudy, ser. 8) no. 5, p. 39-79 (in Russian).
- 1972, [*Birisia*—New genus of Cretaceous ferns of Siberia]: Bot. Zhur., v. 57, p. 94-101 (in Russian).
- 1976, [The Cretaceous flora of Omsukchan (Magadan district)]: Akad. Nauk SSSR Komarov Bot. Inst., 207 p. (in Russian).
- Saporta, G. de, 1891, Sur les plus anciennes Dicotylées européennes observées dans le gisement de Cercal en Portugal: Acad. Sci. Comptes Rendus, v. 113, p. 249-253.
- Saporta, G. de, and Marion, A. F., 1885, L'évolution du règne végétal, les phanérogames, v. 2: 247 p.
- Sartoni, S., and Crescenti, U., 1962, Ricerche biostratigrafiche nel Mesozoico dell'Appennino meridionale: Gior. Geologica, v. 2, no. 29, p. 162-302.
- Schaarschmidt, Friedemann, 1966, Die Keuperflora von Neuwelt bei Basel. V. Ein Ascomycet in *Pterophyllum*: Schweizer. Paläont. Abh., v. 84, p. 67-79.
- 1974, *Mosellophyton hefteri* n. g. n. sp. (?Psilophyta) ein sukkulenter Halophyte aus dem Unterdevon von Alken an der Mosel: Paläont. Zeitschr., v. 48, no. 3/4, p. 188-204.
- Scheckler, S. E., 1975, *Rhymokalon*, a new plant with cladoxylean anatomy from the upper Devonian of New York State: Canadian Jour. Botany, v. 53, no. 1, p. 25-38.
- Schopf, J. W., 1968, Microflora of the Bitter Springs Formation, late Precambrian, central Australia: Jour. Paleontology, v. 42, no. 3, p. 651-688.
- Schopf, J. W., and Barghoorn, E. S., 1967, Alga-like fossils from the early Precambrian of South Africa: Science, v. 156, no. 3774, p. 508-512.
- Schopf, J. W., and Blacic, J. M., 1971, New microorganisms from the Bitter Springs Formation (late Precambrian) of the north-central Amadeus Basin, Australia: Jour. Paleontology, v. 45, no. 6, p. 925-960.



- Seely, H. M., 1904, The Stromatoceria of Isla La Motte, Vermont: Vermont State Geologist Rept. 4, p. 144-165.
- Selkirk, D. R., 1972, Fossil *Manginula*-like fungi and their classification: Linnean Soc., New South Wales Proc., v. 97, pt. 2, p. 141-148.
- 1975, Tertiary fossil fungi from Kiandra, New South Wales: Linnean Soc., New South Wales Proc., v. 100, pt. 1, p. 70-94.
- Semikhotov, M. A., 1960, [On the vertical distribution of stromatolites in the Ripheans of Turukhamsk region]: Akad. Nauk SSSR Doklady, v. 135, p. 1480-1483 (in Russian).
- 1978, [Some Aphebian carbonate stromatolites of the Canadian Shield]: Akad. Nauk SSSR, Geol. Inst., Trudy, new ser., no. 312, p. 111-147 (in Russian).
- Senkevich, M. A., 1961, [A description of the Devonian flora of Kazakhstan]—[Contributions to the knowledge of the geology and mineral deposits of Kazakhstan], v. 1, no. 26: Moscow, Gosgeoltekhizdat, p. 115-211, 252-287 (in Russian).
- 1978, Novyye Devonskiye psilofitovyye Kazakhstana: Ezhegodnik Vses. Paleont. Obshchestva, v. 21, p. 288-298.
- Senowbari-Karyan, Baba, 1978, *Pentaporella rhaetica* n. g. n. sp., eine neue Kalkalge (Dascycladaceae) aus dem oberrhätischen Gruber-Riff (Hintersee/Salzburg): Paläont. Zeitschr., v. 52, no. 1/2, p. 6-12.
- Shapovalova, I. G., 1974, Stratigrafiya i stromatolity Rifeyskikh otlozheniy severnoy chasti Yudomo-Mayskogo progiba [Stratigraphy and stromatolites from Riphean deposits of the northern part of the Yudomo-Mayskogo trough]: Novosibirsk, Izd. "Nauka," 140 p.
- Sharma, B. D., 1973, Anatomy of petrified rachises collected from the Jurassic of Amarjola in the Rajmahal Hills, India: Linnean Soc. New South Wales Proc., v. 98, pt. 1, p. 43-49.
- Sharma, B. D., and Bohra, D. R., 1974, *Actinostolepteris pakurensis* gen. et sp. nov. from the Rajmahal Hills, India: Palaeobotanist (Lucknow, India), v. 23, no. 1, p. 55-58.
- Shukla, V. B., 1948, A new angiosperm flower and gymnospermous ovule from Mohgaonkalan: Indian Bot. Soc. Jour., v. 26, no. 4, Supp., p. 259.
- Shuyskiy, V. P., 1973a, Izvestkovyye rifoobrazuyushchiye vodorosli nizhnego Devona Urala [Calcareous reef-building algae from the lower Devonian of the Urals]: Moscow, Izd. "Nauka," 155 p.
- 1973b, Dva novykh roda zelenykh vodorosley iz nizhnego devona zapadnogo sklona Urala [Two new genera of green algae from the lower Devonian of the western slopes of the Urals]: Akad. Nauk SSSR, Ural. Nauch. Tsentr. Inst. Geologii i Geokhemii, Trudy, v. 99, p. 18-27.
- Singhai, L. C., 1964, On a fossil bryophytic sporogonium from the Deccan Intertrappean beds. Current Sci., v. 33, no. 4, p. 117-119.
- 1978, *Palaeophthora mohgaonensis* Singhai—a fossil fungus from the Deccan Intertrappean beds of Mohgaon-kalan, Chhindwara District, M. P., India: Palaeobotanist (Lucknow, India), v. 25, p. 481-485.
- Skog, J. E., 1976, *Loxsopteris anasilla*, a new fossil fern from the Cretaceous of Maryland: Am. Fern Jour., v. 66, no. 1, p. 8-14.
- Snigirevskaya, N. S., 1977, [Rhizome of matoniaceous fern (family Matoniaceae, order Filicales) from the Jurassic deposits of East Siberia]: Bot. Zhur., v. 62, no. 6, p. 858-862 (in Russian).
- Sokac, B., and Nikler, L., 1969, *Dinarella kochi* n. g. n. sp. (Das.) from the Lias of the Velebit Mountains: Geol. Vjesnik (Zagreb), v. 22, p. 11-16.
- 1973, Calcareous algae from the lower Cretaceous of the environs of Niksec, Crna Gora (Montenegro): Palaeontologia Jugoslavica, v. 13, p. 7-57.
- Srivastava, A. K., 1978, Studies in the *Glossopteris* flora of India—43. Some new plant fossils from the lower Gondwana sediments of Auranga coal field, Bihar: Palaeobotanist (Lucknow, India), v. 25, p. 486-495.

- Srivastava, N. K., 1973, Neocomian calcareous algae from Bolshoe Balkhan, U.S.S.R.: Neues. Jahrb. Geologie Paläontologie, Monatsh. v. 11, p. 690-708.
- Srivastava, S. C., 1973, A new microsporangiate fructification from the Triassic of Nidpur, India: Palaeobotanist (Lucknow, India), v. 22, no. 1, p. 19-22.
- 1974, Some macroplant fossils from the Triassic rocks of Nidpur, India: Palaeobotanist (Lucknow, India), v. 23, no. 1, p. 44-48.
- Stanislavskii, F. A., 1976, Sredne-Keyperskaya flora Donetskogo basseyna [Middle Keuper flora of the Donets Basin]: Kiev, Izd. Nauka Dumka, 168 p.
- Stein, W. E., Jr., and Beck, C. B., 1978, *Bostonia perplexa* gen. et sp. nov., a calamopityan axis from the New Albany Shale of Kentucky: Am. Jour. Botany, v. 65, no. 4, p. 459-465.
- Stepanov, S. A., 1975, Fitostratigrafiia oporrykh razrezov devona Okrain Kuzbassa: Sibir. Nauchno-Issled. Inst. Geologii, Geofizikii, Mineral'nogo Syr'ya Trudy, no. 211, 150, p.
- Stepanova, M. V., 1972, Novye Dokembriyskie i Kembriyskie midrofitality i vodorosli Altae-Sayanskoy Oblasti [New Precambrian and Cambrian microphytolites and algae from the Altae-Sayan district]: Sibir. Nauchno-Issled. Inst. Geologii, Geofizikii, Mineral'nogo syr'ya, Trudy, no. 146, p. 68-73.
- Stidd, B. M., Leisman, G. A., and Phillips, T. L., 1977, *Sullitheca dactylifera* gen. et sp. n.: a new medullosan pollen organ and its evolutionary significance: Am. Jour. Botany, v. 64, no. 8, p. 994-1002.
- Stopa, S. Z., 1957, Les feuilles de Fougères (Pteridophylla) du Namurien supérieur et du Westphalien le plus bas dans le bassin houiller de la Haute-Silésie: Poland Inst. Geol. Prace, v. 13, 206 p. (in Polish; Russian and French summaries).
- Straub, W., 1952, Mikropaläontologische Untersuchungen im Tertiär zwischen Ehingen und Ulm a. d. Donau: Geol. Jahrb., v. 66, p. 433-524.
- Suguio, Kenitiro, and Mussa, Diana, 1978, Madeiras fosseis dos Aluvios Antigos do Rio Tieté, São Paulo: São Paulo Univ. Inst. Geociencias Bol., v. 9, p. 25-45.
- Sukh-Dev and Bose, M. N., 1972, On some conifer remains from Bansa, South Rewa Gondwana basin: Palaeobotanist (Lucknow, India), v. 21, no. 1, p. 59-69.
- Sukh-Dev and Zeba-Bano, 1978, *Araucaria indica* and two other conifers from the Jurassic-Cretaceous rocks of Madhya Pradesh, India: Palaeobotanist (Lucknow, India), v. 25, p. 496-508.
- Sukhov, S. V., 1969, Semena Pozdnepaleozoyskikh rasteniy Sredney Sibiri [Seed of late Paleozoic plants of central Siberia]: Sibir. Nauchno-Issled. Inst. Geologii, Geofizii, Mineral'nogo Syr'ya, Trudy, no. 64.
- Surange, K. R., and Chandra, Shaila, 1971a, *Denkania indica* gen. et sp. nov.—A glossopteridium fructification from the lower Gondwana of India: Palaeobotanist (Lucknow, India), v. 20, no. 2, p. 264-268.
- 1971b, *Partha* a new type of female fructification from the lower Gondwana of India: Palaeobotanist (Lucknow, India), v. 20, no. 3, p. 356-360.
- 1972a, Fructifications of Glossopteridae from India: Palaeobotanist (Lucknow, India), v. 21, no. 1, p. 1-17.
- 1972b, Some male fructifications of Glossopteridales: Palaeobotanist (Lucknow, India), v. 21, no. 2, p. 255-266.
- Tchirkova-Zalesskaya, E. F., 1957, Delenie terrigennogo devona Uralo-povoljia na osnovanii iskopaemykh rastenii: Moscow, Akad. Nauk SSSR, p. 1-136.
- Tchuvashov, B. I., 1965, [*Katavella*, a new genus of fossil red algae]: Paleont. Zhur., no. 2, p. 144-146 (in Russian).
- Teixeira, Carlos, 1964, Une nouvelle plante fossile du Stéphanien des environs de Porto (Portugal): Cong. Internat. Stratigraphie et Gologie Carbonifère, 5th, Compte Rendu, v. 2, p. 821-822.

- Townrow, J. A., 1955, On some species of *Phyllothea*: Royal Soc. New South Wales Jour. and Proc., v. 89, pt. 1, p. 39-63.
- 1962, On some disaccate pollen grains of Permian to Middle Jurassic age: Grana Palynologica, new ser., v. 3, no. 2, p. 14-44.
- 1967, The *Brachyphyllum crassum* complex of fossil conifers: Royal Soc. Tasmania Papers and Proc., v. 101, p. 149-172.
- Trivedi, B. S., Chaturvedi, S. K., and Verma, C. L., 1973, A new fossil fungus *Ascodesmisites malayensis* gen. et sp. nov. from Tertiary coals of Malaya: Geophytology (Lucknow, India), v. 3, no. 2, p. 126-129.
- Trivedi, B. S., and Verma, C. L., 1973, *Leptospermatoxylon indicum* gen. et sp. nov. from the Deccan Intertrappean beds of Madhya Pradesh, India: Indian Bot. Soc. Jour., v. 52, p. 151-156.
- Tsao Rui-chi and Liang Yu-zhou, 1974, On the classification and correlation of the Sinian System in China, based on a study of algae and stromatolites: Acad. Sinica, Nanking Inst. Geology and Palaeontology Mem., 5, p. 1-26.
- Turonenko, T. N., and Virskaya, I. Yu., 1962, in Vologdin, A. G., Drevneishie Vodorosli SSSR, Chast'1. Vodorosli Siniya [The most ancient algae of the U.S.S.R. Part I, Siniian algae]: Moscow, Akad. Nauk SSSR.
- Ulrich, E. O., 1878, Descriptions of some new species of fossils from the Cincinnati Group: Cincinnati Soc. Nat. History Jour., v. 1, no. 2, p. 92-100.
- 1879, Descriptions of new genera and species from the lower Silurian about Cincinnati: Cincinnati Soc. Nat. History Jour., v. 2, p. 8-30.
- Unger, Franz, 1847, Chloris protogaea. Beiträge zur flora der Vorwelt: Leipzig, W. Engelmann, 149 p.
- Vachard, Daniel, 1974, Sur les dasycladacées méaspondyles "Vestibulaires," a propos d'un de leurs représentants viséens: *Evelebitella occitanica* n. gen. n. sp.: Acad. Sci. Comptes Rendus, v. 279, p. 1855-1858.
- Vachrameev, V. A., and Kotova, I. Z., 1977, [Ancient angiosperms and accompanying plants from the lower Cretaceous of Transbaikalia]: Paleont. Zhur., 1977, no. 4, p. 101-109 (in Russian; English translation in Paleont. Jour., v. 11, no. 4, p. 487-495).
- Van der Burgh, Johan, 1978, Holzer aus dem Pliozän der Niederrheinischen Bucht: Fortschritte Geologie Rheinland u. Westfalen, v. 28, p. 213-275.
- Vassilevskaya, N. D., 1977, [New Cretaceous ferns from Chukotka and the Koryak Range]: Paleont. Zhur., 1977, no. 2, p. 122-129 (in Russian; English translation in Paleont. Jour., v. 11, no. 2, p. 249-255).
- Vogellehner, Dieter, 1967, Zur anatomie und phylogenie mesozoischer Gymnospermenholzer, 4; *Scalaroxylon multiradiatum* n. g. n. sp., ein Cycadophytina-Sekundärholz aus dem Keuper von Franken: Neues Jahrb. Geologie u. Paläontologie, Abh., v. 128, no. 2, p. 215-228.
- Vologdin, A. G., 1958, [Memoirs of the Institute of Palaeontology]: Acad. Sinica, 1958, no. 1, p. 1-32 (in Chinese and Russian).
- Vologdin, A. G., and Drozdova, N. A., 1964, [Some algae species from the Gonama suite of the Uchur series of the Proterozoic of the Ayany-Maysky region of the Far East]: Akad. Nauk SSSR Doklady, v. 159, no. 1, p. 114-116 (in Russian).
- 1964, [Fossil blue-green algae in late Pre-Cambrian deposits of the Far East]. Akad. Nauk SSSR Doklady, v. 159, no. 3, p. 576-578 (in Russian).
- Vologdin, A. G., and Korde, K. B., 1965, [Certain species of ancient Cyanophyta and their coenoses]: Akad. Nauk SSSR Doklady, v. 164, no. 2, p. 429-432 (in Russian).
- Vologdin, A. G., and Titorenko, T. N., 1966, [Proterozoic algae from the Kurtun River (southwest Pribaikalie)]: Akad. Nauk SSSR Doklady, v. 166, no. 6, p. 1436-1439 (in Russian).



- Voronova, L. G., 1976, [Calcareous algae from the border layers of the Precambrian and Cambrian of the Siberian Platform]: Akad. Nauk SSSR, Geol. Inst. Trudy, no. 294 [a], p. 3-93 (in Russian).
- Wagner, R. H., and Spinner, Edwin, 1976, *Bodeodendron*, tronc associé à *Sporangiostrubus*: Acad. Sci. Compte Rendus, ser. D, v. 282, no. 4, p. 353-356.
- Walton, John, 1925, On some South African fossil woods: South African Mus. Annals, v. 22, p. 1-26.
- Wang Xifu, 1977, [On the new genera of *Annularia*-like plants from the upper Triassic in Sichuan-Shanxi area]: Acta Palaeontologica Sinica, v. 16, no. 2, p. 185-190 (in Chinese; English abstract).
- Wang Zhen, 1978a, Paleogene charophytes from the Yangtze-Han river basin: Academia Sinica, Nanjing Inst. Geology and Palaeontology Mem. 9, p. 102-123.
- 1978b, Cretaceous charophytes from the Yangtze-Han river basin with a note on the classification of Porocarpaceae and Characeae: Academia Sinica, Nanking Inst. Geology and Palaeontology, mem. 9, p. 61-92.
- Wang Zhen and Huang Ren-jin, 1978, [Triassic charophytes of Shaanxi]: Acta Palaeont. Sinica, v. 17, no. 3, p. 267-276 (in Chinese; English abstract).
- Watson, Joan, 1974, *Manica*—A new fossil conifer genus: Taxon, v. 23, p. 428.
- Weber, Reinhard, 1976, *Dorfiella auriculata* f. gen. nov., sp. nov. un genero nuevo de Helechos Acuáticos del Cretácico Superior de México: Asoc. Latinoamericana Paleobotánica y Palinología Bol., v. 3, p. 1-13.
- Weigelt, Joh., 1928, Die pflanzenreste des mitteldeutschen Kupferschiefers und ihre Einschaltung ins sediment: Fortschritte der Geologie u. Palaeontologie, v. 6, no. 19, p. 395-592.
- Weiss, C. E., 1884, Beiträge zur fossilen flora, III. Steinkohlen-Calamarien, II: Prussia Geol. Landesanstalt Abh., v. 5, no. 2.
- Wheeler, Elisabeth, Scott, R. A., and Barghoorn, E. S., 1977, Fossil dicotyledonous woods from Yellowstone National Park: Arnold Arboretum Jour., v. 53, no. 3, p. 280-302.
- White, M. E., 1978, Reproductive structures of the glossopteridales in the plant fossil collection of the Australian Museum: Australian Mus. Recs., v. 31, nos. 10-12, p. 473-505.
- Wolfe, J. A., 1977, Paleogene floras from the Gulf of Alaska region: U. S. Geol. Survey Prof. Paper 997, 108 p.
- Wood, Alan, 1948, "*Sphaerocodium*," a misinterpreted fossil from the Wenlock Limestone: Geol. Assoc. Proc., v. 59, no. 1, p. 9-22.
- Xing-Xue and Chong-Yang, 1978, [A type-section of lower Devonian strata in southwest China with brief notes on the succession and correlation of its plant assemblages]: Acta Geol. Sinica, 1978, no. 1, p. 1-12 (in Chinese; English abstract).
- Yasui, Kono, 1926, Description of internal structure of remains of a Tertiary moss: Bot. Mag. (Tokyo), v. 40, p. 15-18.
- Yin Leiming and Li Zaiping, 1978, Pre-Cambrian microfloras of southwest China with reference to their stratigraphical significance: Acad. Sinica, Nanjing Inst. Geology and Paleontology, Mem. 10, p. 41-102.
- Zalessky, M. D., 1918, Flore paléozoïque de la série Angara: Comité Géol. Russie Mém. 174, 76 p. (in Russian).
- 1933, Sur les nouveaux végétaux fossiles du système anthracolithique du bassin de Kousnetz: Akad. Nauk SSSR Izv., 1933, no. 8, p. 1213-1258 (in Russian).

- 1934, Observations sur les végétaux permians du bassin de la Petchora, I: Akad. Nauk SSSR Izv., 1934, no. 2-3, p. 241-290 (in Russian).
- Zhang Chungying, 1977, [On the discovery of the fossil blue-green algae from the lower Tertiary of northern Kiangsi]: Acta Palaeont. Sinica, v. 16, no. 2, p. 159-162 (in Chinese; English abstract).
- Zimmermann, Walter, 1959, Die phylogenie pflanzen (2d ed.): Stuttgart, Gustav Fischer Verlag, 777 p.







